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WARNING:

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

IMPORTANT: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate this engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

This spark ignition system complies with Canadian ICES-002.

The enclosed Engine Owner's Manual is supplied for information regarding the U.S. Enviromental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance and warranty.

Keep this Engine Owner's Manual with your unit. Should the Engine Owner's Manual become damaged or illegible, replace immediately. Replacements may be order per the information found in the Product Information section of this manual.

GENERAL INFORMATION

This manual applies to the following equipment:
FasTrak tractor 20hp & 52" deck, number 926501
FasTrak tractor 18hp & 44" deck, number 926519
FasTrak tractor 16hp & 44" deck, number 926527
FasTrak tractor 18hp & 52" deck, number 926592
FasTrak tractor 17.5hp & 52" deck, number 926600
FasTrak tractor 17.5hp & 44" deck, number 926774

To the new owner

The purpose of this manual is to assist owners and operators in maintaining and operating the FasTrak tractor and deck. Please read it carefully; information and instructions furnished can help you achieve years of dependable performance.

A separate Engine Owner's Manual is included with your owner's packet which contains additional engine information that will not be repeated in this manual. You are urged to read it before attempting any operation or repair of the engine.

The Quick Reference Decals, located to the left of the seat, are designed to give the operator brief information needed in the daily operation and service of the machine. These decals are not intended to be used in place of this manual but instead is to be used as an extension of this manual. These decals should not be removed or obliterated. Replace these decals if they become unreadable.

It is the **owner's responsibility** to make certain that the operator reads and understands this manual and all decals before operating this machine. It is also the **owner's responsibility** to make certain that the operator is a qualified and physically able individual, properly trained in the operation of this equipment. Local regulations may restrict the age of the operator.

Using this manual

General operation, adjustment and maintenance guidance is outlined for both the experienced and novice Hustler user. Operating conditions vary considerably and cannot all be addressed individually. Through experience, however, operators should find no difficulty in developing good operating skills suitable to most conditions.

Directions used in this manual, for example RIGHT or LEFT, refer to directions when seated on tractor facing forward, unless otherwise stated.

Photographs and illustrations used were current at the time of printing, but subsequent production changes may cause your machine to vary slightly in detail. Hustler Turf Equipment reserves the right to redesign and change the machine as deemed necessary, without notification. If a change has been made to your machine which is not reflected in this owner's manual, or the parts manual, see your Hustler dealer for current information and parts.

Warranty registration

The Delivery and Warranty Registration form must be completed and signed to validate your warranty protection. As the new equipment owner, you are expected to see that the form is completed and forwarded to Hustler Turf Equipment at time of delivery.

Be sure to register the tractor plus each attachment that displays a model and serial identification number plate with Hustler Turf Equipment.

IMPORTANT: Any unauthorized modification, alteration, or use of non-approved attachments voids the warranty and releases Hustler Turf Equipment from any liability arising from subsequent use of this equipment.

Model and serial number

Tractor model and serial numbers are found on the serial identification plate, located on the frame directly below and to the left of the operator's platform.

These numbers are required on the Warranty Registration form. They will also assure you of the correct service parts when replacement becomes necessary.

Parts and service

Use original Hustler replacement parts only. These parts are available through your local Hustler dealer. To obtain prompt, efficient service, always provide the following information when ordering parts:

1. Correct part description
2. Correct model number.
3. Correct serial number.

All warranty repair and service must be handled through an authorized Hustler dealer. Arrangements should be made through your local service center.

For location of nearest dealer, or should you need further assistance, contact:

Customer Service Department
Hustler Turf Equipment
P.O. Box 7000
Hesston, KS 67062
Telephone (620) 327-4911
FAX (620) 327-2458

FASTRAK TRACTOR & DECK
HUSTLER TURF CONSUMER PRODUCT
TWO YEAR FULL WARRANTY FOR RESIDENTIAL USE
(90 DAY LIMITED WARRANTY FOR COMMERCIAL USE)

WHAT IS COVERED BY THIS WARRANTY

Hustler Turf Equipment, makes the following warranty to the original purchaser only:

a. Residential use: Hustler Turf Consumer Products and Attachments used for normal residential purposes* are warranted for **two (2) years from date of delivery** on all materials and workmanship.

If the Purchaser discovers within this warranty period (two years from date of delivery) a defect in materials or workmanship:

- He must promptly notify Hustler Turf Equipment., or an authorized dealer, in writing of the defect. In no event shall such notification be received by Hustler Turf Equipment, or an authorized dealer later than twenty-five (25) months from date of delivery.
- Within a reasonable time after such notification, Hustler Turf Equipment, will correct any defect in material or workmanship on the Hustler Turf Equipment, with either new or used replacement parts.
- Such repair, including parts and labor shall be at the expense of Hustler Turf Equipment, and,

*** Normal residential purpose means use of product on same lot as your home.** Use at more than one location is considered commercial use, and then the commercial use warranty would apply.

b. Commercial use: Hustler Turf Consumer Products and Attachments used for commercial, institutional, or rental use are warranted for **90 days from date of delivery** on all materials and workmanship.

If the Purchaser discovers within this warranty period a defect in materials or workmanship:

- He must promptly notify Hustler Turf Equipment, or an authorized dealer, in writing of the defect. In no event shall such notification be received by Hustler Turf Equipment, or an authorized dealer later than 120 days from date of delivery.
- Within a reasonable time after such notification, Hustler Turf Equipment, will correct any defect in material or workmanship on the Hustler Turf Equipment, with either new or used replacement parts.
- Such repair, including parts and labor shall be at the expense of Hustler Turf Equipment, and,

c. Hustler Turf Equipment provides a limited warranty against all defects in the deck which results in the **front edge of the deck** being bent into the blades **for the entire length of ownership by the original purchaser** (commercial or residential).

If the original Purchaser discovers within this warranty period such a defect

- He must promptly notify Hustler Turf Equipment or san authorized dealer, in writing of the defect. Such notification must be received by Hustler Turf Equipment or an authorized dealer during the period when the equipment is owned by the original purchaser.
- Hustler Turf Equipment will repair any defect in the deck resulting in the front edge of the deck being bent into the blades with either new or used replacement parts.
- Such repair, including parts and labor, shall be at the expense of Hustler Turf Equipment, and,

d. The Honda engine is covered by a two (2) year limited warranty, by the engine manufacturer, to the original owner (commercial or residential) only, and,

The Briggs & Stratton engine is covered by a two (2) year limited warranty, by the engine manufacturer, to the original owner (residential only) and a one (1) year limited warranty, by the engine manufacturer, to the original owner (commercial only), and,

e. The battery is covered by a one (1) year limited warranty to the original owner only.

WHO MUST PERFORM THE WARRANTY SERVICE

All warranty service will be performed by dealers authorized by Hustler Turf Equipment. **Service calls and/or transportation expense** of the product to and from the authorized dealer, for warranty work, will be paid by the owner of the product. For warranty service you can contact an authorized dealer or write Hustler Turf Equipment, 200 South Ridge Road, Hesston, Kansas 67062, or call 1-620-327-4911.

WHAT IS NOT COVERED BY THIS WARRANTY

Hustler Turf Equipment, does not warranty:

- Some product, components or parts not manufactured by Hustler Turf Equipment
- Repairs made by unauthorized persons
- Damage caused by use of the Hustler Turf Equipment for purposes other than those for which it was designed
- Damages caused by disasters such as fire, flood, wind, and lightening
- Damages caused by neglect, abuse, abnormal use, improper or unreasonable use, accident, negligence or misuse
- Repairs or replacement resulting from the use of unauthorized parts, accessories or attachments
- Repairs or replacement as the result if any alterations or modifications, in the determination of Hustler Turf Equipment, which adversely affects the operation, performance or durability of the equipment.
- Hustler Turf Equipment which has the serial number removed or made illegible
- Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the product's owner's manual operating, maintenance and adjustment instructions or other operational instructions provided by Hustler Turf Equipment.
- Normal maintenance parts and service including, but not limited to, filters, fuel, lubricants, tune-up parts, belts, blades, blade sharpening, brake or steering adjustments.
- Repairs necessary due to improper fuel, contaminates in the fuel system, or failure to properly prepare the fuel system prior to any period of non-use over three months.

DISCLAIMER OF WARRANTY

The foregoing warranties are in lieu of all other warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. However, if the Hustler Turf Equipment is purchased as a consumer product, any implied warranty of merchantability or fitness for a particular purpose is limited to the duration of this limited warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

LIMITATION OF REMEDIES

In no case shall Hustler Turf Equipment, be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.

Such damages include, but are not limited to

- Loss of profits
- Loss of savings or revenue
- Loss of use of Hustler Turf Equipment or any associated equipment
- Cost of capital
- Cost of any substitute equipment, facilities, services, or downtime
- The claims of third parties including customers, and injury to property

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

TIME LIMITS

Any action for breach of warranty must be commenced within twenty-five (25) months following delivery of the goods in a residential application. Any action for breach of warranty must be commenced within 120 days following delivery of the goods in a commercial application.

NO OTHER WARRANTIES

Unless modified in writing, signed by both parties, and approved by the President of Hustler Turf Equipment, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement. No employee of Hustler Turf Equipment, or any other party is authorized to make any warranty in addition to those made in this agreement.

ALLOCATION OF RISKS

This agreement allocates the risks of product failure between Hustler Turf Equipment, and the purchaser. This allocation is recognized by both parties and is reflected in the price of the goods.

OWNER'S RESPONSIBILITY

You must maintain your Hustler Turf Consumer Product following the maintenance procedures described in your owner's manual. Such routine maintenance, whether performed by a dealer or by you, is at your expense.

This machine like any other powered equipment is potentially dangerous unless properly operated. Any operator **must** be cautious and keep safety in mind at all times. Any operator, prior to using the Hustler Turf Equipment, should thoroughly familiarize himself with the owner's manual regarding operation and safety of the machine, as well as all safety warnings on the machine itself.

WARRANTY REGISTRATION

1. The Warranty registration form MUST be completed and signed by the authorized dealer and original purchaser.
2. For validation, the completed Warranty registration form MUST be forwarded to Hustler Turf Equipment, within ten (10) days following date of purchase.
3. The date of purchase constitutes delivery.

SAFETY PRECAUTIONS

This safety alert symbol is used to call attention to a message intended to provide a reasonable degree of **PERSONAL SAFETY** for operators and other persons during the normal operation and servicing of this equipment.

DANGER – denotes immediate hazards which **WILL** result in severe personal injury or death.

WARNING - denotes a hazard or unsafe practice which **COULD** result in severe personal injury or death.

This manual uses two other words to highlight information. **IMPORTANT** calls attention to special mechanical information and **NOTE:** emphasizes general information worthy of special attention.

All operators should read this manual, or be instructed about safe operating and maintenance procedures. This is the owner's responsibility.

This machine meets or exceeds the B-71.1-1998 specifications of the American National Standards Institute, in effect at the time of production. However, improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert ▲ symbol, which means DANGER or WARNING - "personal safety instructions." Failure to comply with the instructions may result in personal injury or death.

Incorrect usage of this machine may result in severe injury. Personnel operating and maintaining it should be trained in the proper use and should read the manuals completely and thoroughly before attempting to set-up, operate, adjust, or service this machine.

The Quick Reference Decals, located to the left of the seat, are designed to give the operator brief information needed in the daily operation and service of the machine. These decals are not intended to be used in place of this manual but instead is to be used as an extension of this manual. These decals should not be removed or obliterated. Replace these decals if they become unreadable.

It is the **owner's responsibility** to make certain that the operator reads and understands this manual and all decals before operating this machine. It is also the **owner's responsibility** to make certain that the operator is a qualified and physically able individual, properly trained in the operation of this equipment. Local regulations may restrict the age of the operator.

The owner should also ensure that the operator/mechanic know that they are responsible for their own safety as well as the safety of other persons within the vicinity. **Remember,** the operator is responsible for accidents or hazards occurring to other people or their property.

Safe Operating Practices

Some of the following safety instructions are from ANSI Standard B-71.1-1998 while others are specific to the Hustler FasTrak unit.

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

Operation

- ▲ Never leave a running machine unattended. Always disengage deck clutch, place control levers in park brake position, stop tractor engine, and remove ignition key when leaving operator's seat.
- ▲ Always remain seated while operating machine.
- ▲ Always keep safety shields and covers in place, except for servicing.
- ▲ Always maintain a safe distance from people and pets when mowing. Always stop machine if someone enters the area.
- ▲ Always operate machine in daylight or with adequate working lights.
- ▲ Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
- ▲ Always observe traffic laws while driving machine from one location to another. Watch for traffic when operating near or crossing roadways.
- ▲ Always be alert for hazards such as rocks, metal objects and other debris which may be thrown or entangled by mower blades. Watch out for holes or deep depressions.
- ▲ Always inspect machine for damage after striking a foreign object. If damage is found, repair machine immediately. Be sure to disengage deck clutch, place control levers in park brake position, stop tractor engine, and remove ignition key when leaving operator's seat to inspect damage.
- ▲ Always wear adequate ear protection, such as earplugs, when operating this equipment as prolonged exposure to uncomfortable or loud noises can cause impairment or loss of hearing. Do not wear radios or music headphones while operating the machinery. Safe operation requires your full attention.
- ▲ Always be aware of what is behind the machine before backing up. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing up.
- ▲ Never pull back suddenly on your control levers while the machine is in forward motion.
- ▲ When going in reverse, push forward slowly on control levers and avoid sudden movement. Rapid movement of the control levers in either direction could result in a reaction of the tractor that can cause serious injury.
- ▲ Never operate a poorly maintained machine.
- ▲ Never attempt high speed maneuvering, especially in crowded or congested areas.
- ▲ Never allow persons to operate this machine without proper instruction or allow children to operate machine. Allow only responsible adults who are familiar with these instructions to operate this machine.
- ▲ Never put hands or feet under any part of the machine while it is running.
- ▲ Never carry passengers.
- ▲ Never direct discharge of material from mower deck towards bystanders. Do not operate the mower without either the discharge chute or the entire grass collection system in place.
- ▲ Always disengage the blades and wait for them to stop before crossing gravel drives, walks or roads.
- ▲ Always keep clear of the mower blades and attachments during their operation.
- ▲ Turn off blades when not mowing.
- ▲ Slow down before turning.
- ▲ Stop the engine before removing the grass catcher or unclogging the discharge chute. Never clear the discharge chute with the engine running. Turn off the engine and be sure the blades have stopped before cleaning. Use a stick to clear a plugged discharge area. **Never use your hand!**
- ▲ Do not operate the machine while under the influence of alcohol or drugs.
- ▲ Exercise caution when loading or unloading the machine onto a trailer or truck.
- ▲ Always wear safety goggles or safety glasses with side shields when operating the mower.
- ▲ Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the mower safely enough to protect themselves and others from serious injury.
- ▲ Never make sudden starts, stops, turns, or reverse direction, especially when maneuvering on slopes. The steering is designed for sensitive response. Rapid movement of the control levers in either direction could result in a reaction of the tractor that can cause serious injury.
- ▲ If any attachment or additional weight is mounted on the rear of the unit, any rapid movement of the control levers in either direction

could result in a reaction of the tractor that can cause serious injury.

▲ **Clean flammable material from machine. Prevent fires by keeping engine compartment, battery, fuel line, fuel tank and operator's station clean of accumulated trash, grass clippings, and other debris. Always clean up spilled fuel and oil.**

Slope Operation

Slopes are a major factor in loss-of-control and tip-over accidents, which can result in sever injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it; do not mow it.

- ▲ Use extreme caution when operating on slopes.
  - Be extremely careful changing directions on a slope. Slow down.
  - Do not operate where the machine could slip or tip.
- ▲ Do not remove or modify the stabilizer wheels.
- ▲ Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- ▲ Remove obstacles such as rocks, tree limbs, etc.
- ▲ Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction.
- ▲ Avoid starting and stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- ▲ Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- ▲ Do not mow near drop-offs, ditches, or embankments. The machine could suddenly turn over if a wheel goes over the edge of a cliff or ditch, or if an edge caves in.
- ▲ Do not mow on wet grass. Reduced traction could cause sliding.
- ▲ Do not try to stabilize the machine by putting your foot on the ground.
- ▲ The Hustler mower is capable of operating horizontally (traverse) on moderately steep slopes. When operating on slopes of 15 degrees or more, be aware of any conditions that may cause the tractor drive tires to lose traction resulting in a possible loss of control of the machine. An operator should not operate on a slope until he is thoroughly familiar with the equipment.
  Refer to Figure 2-1, page 2-7, when determining the degree of slope to be mowed.

  It is strongly recommended that the operator drive the machine off of the slope, using extreme caution, if any sign of loss of traction is detected. Wait until the condition that caused the problem is resolved before attempting to operate on the slope again.

  Terrain conditions can affect traction resulting in possible loss of control of the machine. Some of the conditions to be aware of are:
  1. Wet terrain
  2. Depressions in the ground; i.e. holes, ruts, washouts
  3. Mounds of dirt
  4. Soil type; i.e. sand, loose dirt, gravel, clay
  5. Grass type, density, and height
  6. Extremely dry conditions of grass
  7. Tire pressure

  The attachments mounted to the tractor will also affect the way it handles on a slope. Be aware that each attachment's characteristics vary.

  Another consideration to safe mowing on slopes is to be aware of what is located at the bottom of the slope. Extreme caution should be used when there is a hazard located at the bottom of the slope. Some examples are:
  1. Water; i.e. lake, river
  2. Cliffs, retaining walls
  3. Roads, highways
  4. Buildings
  5. Rocks

  These are just a few examples of situations when caution must be used when operating on a slope. There are many other possibilities too numerous to mention. Just remember to always exercise extreme caution when operating on any slope.

Children

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- ▲ Never leave machine unattended with ignition key in switch, especially with children present.
- ▲ Keep children out of the mowing area and under the watchful care of another responsible adult.
- ▲ Be alert and turn the machine off if children enter the area.
- ▲ Before and while backing, look behind and down for small children.
- ▲ Never carry children, even with the blades off. They may fall off and be seriously injured or interfere with safe machine operation.
- ▲ Never allow children to operate the machine.
- ▲ Use care when approaching blind corners, shrubs, trees, the end of a fence or other objects that may obscure vision.

Service

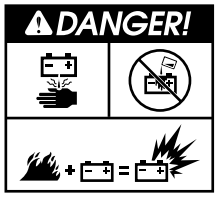
- ▲ Always keep engine and machine clean, removing accumulated dirt, trash and other material from machine. Clean up oil or fuel spillage. Allow machine to cool before storing.
- ▲ Always wear adequate eye protection when servicing the battery or when grinding mower blades and removing accumulated debris.
- ▲ Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive.
- ▲ Never refuel tractor while engine is running; never refuel near an open flame or near devices which can create a spark. Refuel outdoors preferably, or in well ventilated areas.
- ▲ Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
- ▲ Never run the engine in an enclosed area unless exhaust is vented to the outside. Exhaust gases contain carbon monoxide which is odorless and deadly poison.
- ▲ Never attempt to make any adjustments or repairs to the tractor drive system, mower deck or any attachment while the tractor engine is running or deck clutch is engaged. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- ▲ Never work under the machine or attachment unless it is safely supported with stands, blocks or a hoist.
- ▲ Do not touch hot parts of machine.
- ▲ Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
- ▲ Never tamper with safety devices. Check their proper operation regularly.
- ▲ Grass collection system components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- ▲ Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing them.
- ▲ Use only genuine Hustler replacement parts to ensure that original standards are maintained

Safety and Instruction Decals

▲ Specific safety warning decals are located on the equipment near the immediate areas of potential hazards. These decals should not be removed or obliterated. Replace them if they become non-readable.

The following illustrations show the various **decals** that are located on the machine. A brief explanation, for those requiring one, is shown to help the operator understand the meanings of these decals.

Read Owner's Manual and Quick Reference Decal before attempting to operate this machine.



Part Number 727016

Avoid skin contact with battery acid.
Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.
Do not allow open flame near the battery when charging.
Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always remove the negative ground first and replace it last.
Do not overfill battery.
Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.

Part Number 771436

Do not remove or modify stabilizer wheels or rear engine guard or injury can result.

WARNING!
▲ Clean up any gasoline spills.
▲ Do not refuel while in enclosed trailer or other enclosed areas.
▲ Stop engine and allow engine to cool for 2 minutes prior to refueling.

Do not smoke while refueling.
Do not fill tank with engine running, or while the engine is hot.
Allow engine to cool before storing machine inside a building.
Store away from open flame or spark if there is fuel in tank.
Clean up any gasoline spills.
Do not refuel while in enclosed trailer or other enclosed areas

WARNING!
▲ Do not operate unless deflector is in place and in lowest position or complete grass collection system is in place.

Part Number 727420

Never operate the mower deck with side deflector removed or in raised position, except when the grass catcher attachment is being used.

Part Number 727438

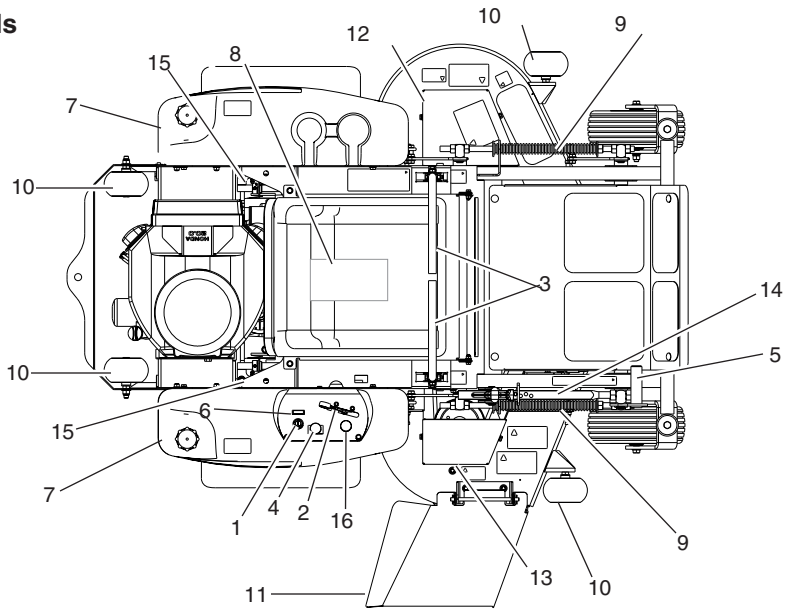
Whirling blades! Keep hands and feet away.
Beware of thrown objects.

Part Number 727453

Keep shields or covers in place while machine is in operation.
Keep hands away from rotating pulleys and belts.

OPERATION

FasTrak Controls



1. Ignition Switch
2. Throttle lever
3. Control levers
4. Deck clutch switch
5. Deck lift pedal
6. Oil Pressure light
7. Fuel tanks
8. Battery
9. Deck adjusting rod
10. Anti-scalp wheels
11. Discharge chute
12. Left deck cover
13. Right deck cover
14. Deck height indicator
15. Park brake switch
16. Choke lever

Figure 3-1

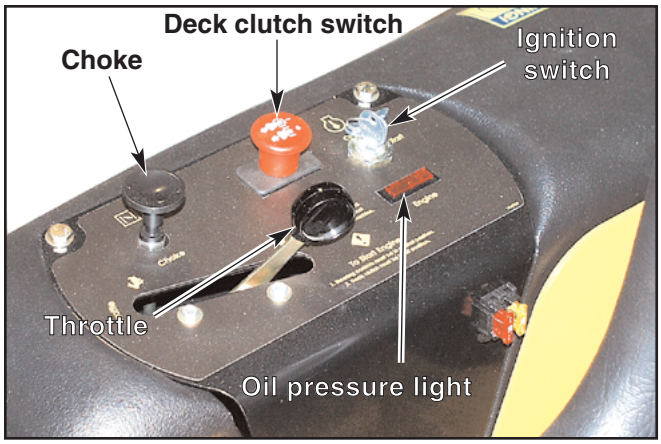


Figure 3-2

IMPORTANT: When access is required under the seat platform and the seat is equipped with the optional arm rests, make certain to place the control arms in the park brake position and pivot the arm rests upward before placing the seat platform in the full forward position to prevent arm rest damage.

Controls

For general location of the controls described in this section, refer to Figure 3-1.

1. **Ignition switch (Fig. 3-2) –** a three position switch: off, run, and start. With key inserted, rotate it clockwise to START position; release key when engine starts, and switch will automatically return to the RUN position.
2. **Throttle control (Fig. 3-2) —** a cable is linked to engine throttle for controlling engine speed. Move lever forward to increase engine rpm, move lever rearward to decrease engine rpm.
3. **Choke control (Fig. 3-2) –** a cable is linked to manually operate the engine choke. When the lever is in the down position, the choke is in the off (run) position. When the lever is pulled up, the choke is in the on (start) position. **Do not** operate the machine in the on (start) position.
4. **Control levers (Fig. 3-3 & 3-4) —** these levers control the tractor's speed, direction, neutral lock, and park brake. Levers are used to steer, accelerate, decelerate and change direction. When the control levers are in the park brake position the tractor will not move when the engine is on and drive pumps are operating.

WARNING: The parking brake may not hold the tractor if parked on a slope. Block or chock the machine when parked on a slope

5. **Deck clutch switch (Fig. 3-2) —** this switch engages the deck. Pull the switch up to engage and push switch down to disengage the clutch.
   IMPORTANT: Never engage clutch with engine running at high rpm or when the deck is under load. Clutch, belts or deck could be damaged.
6. **Deck lift pedal (Fig. 3-5) —** the deck lift pedal is used to raise or lower the deck. Push on the pedal to raise the deck and then place the deck height locking pin into the desired cutting height hole.
   Push the deck lift pedal to raise the deck when going over obstructions.

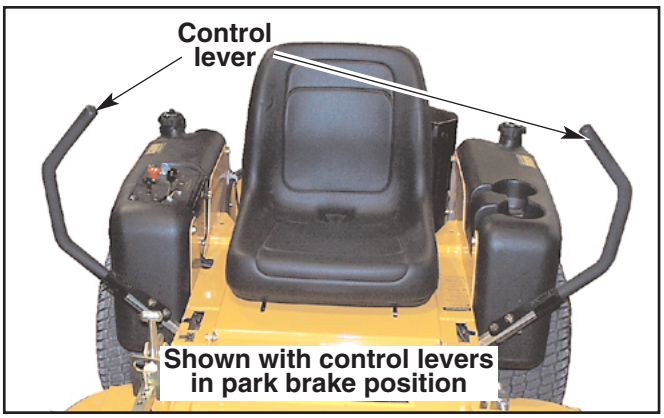


Figure 3-3

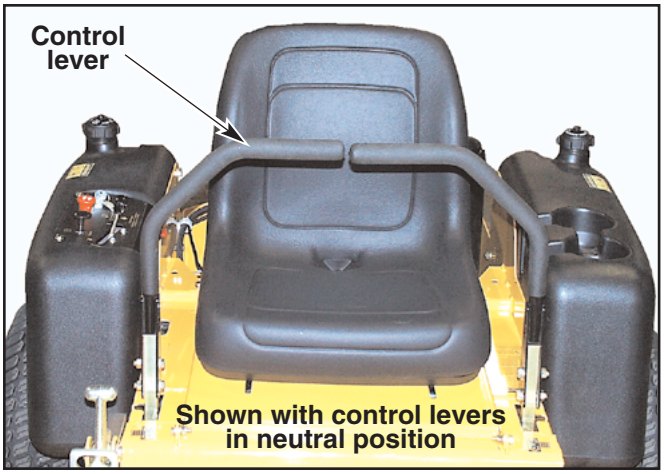


Figure 3-4

Instrumentation

7. **Oil pressure light (Fig. 3-2) —** this light comes on when the ignition switch is placed in the RUN position and stays lit until the engine is running and a safe oil pressure is developed. If light comes on during operation, shut engine off immediately and locate and correct the problem.

Safety start interlock system

The tractor is equipped with a safety start interlock system consisting of the park brake switches, seat switch, and deck clutch switch.

Check tractor safety start interlock system daily, prior to operation. This system is an important tractor safety feature. It should be repaired immediately if it malfunctions. The machine incorporates a separate seat switch which will stop the tractor engine when the operator is unseated for any reason while the tractor is operating. This is a safety feature designed to prevent runaway or accidental entanglement. To inspect the system:

1. The operator must be on the seat when testing the seat switch.
2. Set both control levers in the park brake position.
3. Start the engine and allow it to warm up to operating temperature.
4. With the deck clutch switch down and the control levers in the park brake position, slowly raise off of the seat. **The engine should continue to run.**
5. With the deck clutch switch up and/or the control levers in the neutral position, slowly raise off of the seat. **The engine should stop.**
6. **If the engine fails to stop** when the deck clutch switch is up or one or both of the control levers is up and the operator is off the seat, check the function of the seat switch. If the seat switch is not operating properly **(is not opening or closing)** and if the cause can not be determined, replace the seat switch.

If the problem can not be located, contact your Hustler Dealer.

WARNING: The safety interlock system should always function per steps 4 and 5. If it does not function properly, it should be corrected immediately. Do not operate machine without properly functioning seat safety switch.

Engine starting

The FasTrak safety start interlock system is also designed to protect the operator and others from accidental injury due to unintentional engine starting. The engine starting motor will not engage until:

A. Control levers are in the park brake position.
B. Deck clutch switch is in the down (OFF) position.

WARNING: The safety interlock system must not be disconnected or bypassed. Do so could cause the machine to operate unexpectedly resulting in personal injury.

NOTE: The operator's seat is equipped with a separate safety switch. If for any reason the operator should become unseated when the control levers are not in the park brake position (park brake switches are disengaged) or the deck clutch switch is engaged the engine will stop.

The following steps are the correct procedures for starting the engine.

Figure 3-5

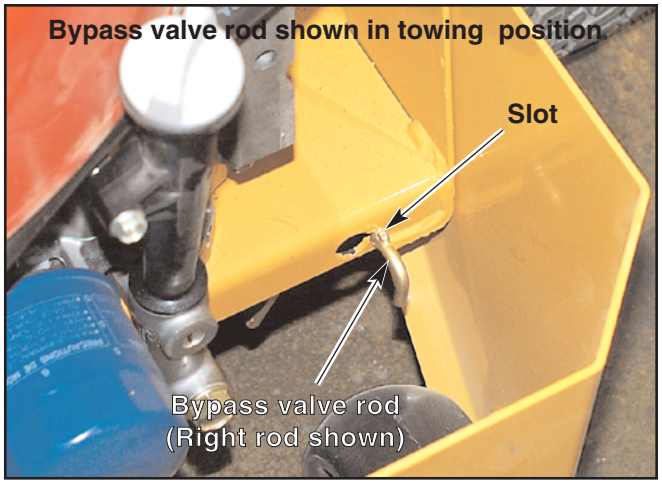


Figure 3-6

If difficulty is encountered, contact the Hustler Dealer in your area.

1. Before starting tractor each day, perform daily pre-operation checking. (See Safety start interlock system section)
2. Make sure the control levers are in the park brake position and deck clutch switch is disengaged.
3. Use choke when engine is cold, or if warm engine fails to start within 5 seconds of cranking. Avoid flooding and operate engine without choking as soon as possible.
4. Set throttle at approximately 1/2 open position.
5. Insert key in ignition switch and rotate full clockwise to engage starting motor. Release key when engine starts.

IMPORTANT: The engine starter should not be operated for periods longer than 30 seconds at a time. An interval of at least two minutes should be allowed between such cranking periods to protect the starter from overheating and burn-out.

6. Perform test to make sure safety start interlock system is operating properly. Refer to Safety start interlock system section.
7. As soon as engine begins to run, check to make certain the oil warning light is off. If not, stop engine immediately and check for the cause.
8. Allow the engine to idle a few minutes before advancing the throttle and/or engaging the deck clutch.
9. Before stopping the engine, place the control levers in the park brake position, disengage the deck clutch, and throttle back to low idle for a couple of minutes; then rotate ignition key counter-clockwise to the OFF position. Remove the key from switch before leaving the tractor.

WARNING: Never leave the machine unattended with key in ignition switch.

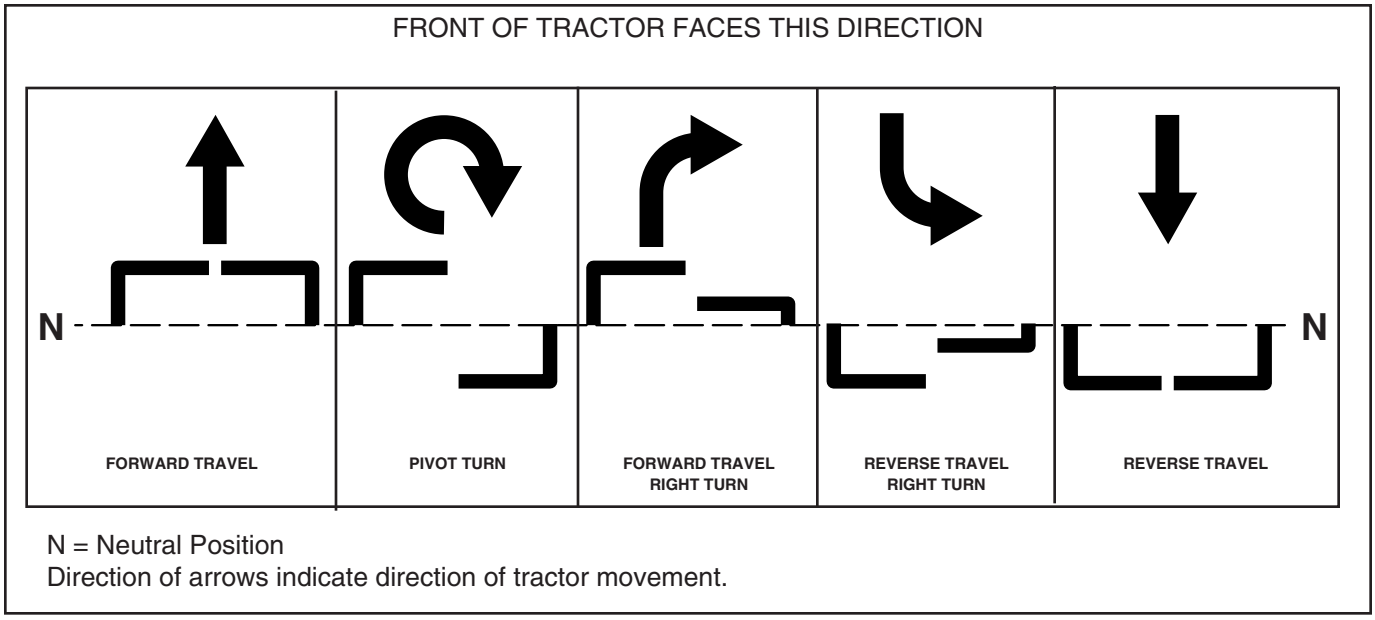


Figure 3-7

Moving tractor with stalled engine

If it becomes necessary to move the tractor when the engine is inoperative, the integrated pump/motor units are equipped with bypass valves. Before moving the unit, pull out on the bypass valve rods and slide them into the slot to lock in position. Both bypass valve rods are located at the rear of the engine platform. (Fig. 3-6)

The control levers must be placed in the neutral position, to release the park brakes, so that the tractor can be moved.

Do not tow the machine. Move it by hand or use a winch to load on a trailer for transporting.

When transporting on another vehicle, the tractor should be facing forward and it must be secured.

IMPORTANT: Always make certain the two bypass valves are returned to their operating position before running the tractor following repairs.

Driving the tractor

DANGER: Never make sudden stops or reverse direction, especially when going down a slope. The steering is designed for sensitive response. Rapid movement of the control levers in either direction could result in a reaction of the tractor that can cause serious injury.

After starting engine, engage the control levers and steer as follows:

To go forward, push control levers forward an equal distance (Fig. 3-7).

To go in reverse, pull control levers rearward an equal distance (Fig. 3-7).

To turn left, move the right control lever farther forward from neutral than the left control lever.(Fig. 3-7)

To turn right, move the left control lever farther forward from neutral than the right control lever. (Fig. 3-7)

To pivot turn, move one control lever forward and the other control lever back of neutral. This will allow the drive wheels to counter-rotate. (Fig. 3-7)

To stop or decrease speed, move control levers to neutral. When going forward pull back gently on control levers. When going in reverse push forward gently on control levers.

DANGER: When going in reverse push forward gently on control levers and avoid sudden movement. Any sudden movement could cause the front of the mower to come off of the ground resulting in possible loss of control.

IMPORTANT: Rapid movement of control levers is not recommended as damage to the hydraulic system components may occur.

To increase speed, increase control lever's distance from neutral. The farther forward control levers are from neutral, the faster tractor will travel forward. The farther back control levers are from neutral, the faster tractor will go in reverse.

Operating suggestions

DANGER: Prior to operating the tractor the operator should be thoroughly familiar with the proper use and operation of the equipment, should read the manual completely and thoroughly, and should have attempted slow moving maneuvers to become familiar with the operation of the equipment before attempting normal speed operation. An inexperienced operator should not mow on slopes or on uneven terrain.

WARNING: The unit's control levers are very responsive: **Easy does it!** For smooth operation, move lever slowly, avoid sudden movement. Skill and ease of operation come with practice and experience. The machine can spin very rapidly. Use caution when making turns and slow down before making sharp turns.

WARNING: Children or bystanders may be injured if they move or attempt to operate the tractor while it is unattended. Always disengage deck clutch, place control levers in park brake position, stop tractor engine, and remove ignition key when leaving operator's seat.

Inexperienced operators may have a tendency to oversteer and lose control. Slow-moving practice maneuvers are recommended to become familiar with these characteristics before attempting normal speed operation.

WARNING: Sharp depressions or raised obstacles (such as gutters or curbs) should not be directly approached at high speed in an attempt to "jump" them as the operator could be thrown from the equipment. Approach at a slow speed and angle one drive wheel at the obstruction. Continue at an angle until the wheel clears and then pivot the opposite wheel around.

When turning on soft wet turf, keep both wheels rolling either forward or backward. Pivoting on one stopped wheel can damage turf. This is especially important when mowing.

Tractor performance is maximum when the throttle is set at full rpm. This gives maximum power to the drive wheels and deck when needed. Use the control levers to control ground speed rather than engine rpm.

WARNING: Do not operate the equipment while wearing sandals, tennis shoes, sneakers, shorts or any type of loose fitting clothing. Always wear long pants, safety glasses, ear protection and safety shoes when operating this machine.

Keep blades sharp. Many professional mowing companies have additional sets of blades and change blades twice a day: once in the morning and again at noon. **Many problems** with incorrect cutting patterns **are due to dull blades** or blades which have been **sharpened incorrectly.** Information on sharpening blades is listed in this manual's maintenance section. In addition, most communities have individuals or companies which specialize in sharpening mower blades. **Blade sharpness should be checked daily.**

Use high blade speed. Your FasTrak is designed to operate at full throttle. The throttle setting directly controls blade speed. The highest blade speed generally gives best cut.

Direct grass discharge to right, away from unmown area. Select a mowing pattern that directs grass discharge towards the outside, not towards center, of mowing area. Generally, this means using a pattern utilizing **left turns** because side discharge is to **right.** In any case, avoid throwing grass discharge onto unmowed area because grass is then mowed "twice". Mowing twice puts an unnecessary load on the unit and reduces mowing efficiency.

When mowing a lawn for the first time cut grass slightly longer than normal to avoid scalping uneven terrain. When possible, it is best to use the cutting height that was used in the past. When cutting grass taller than six inches, you may want to mow the lawn twice to achieve a better quality of cut.

During normal mowing cut only about 1/3 of the grass blade. Cutting more than that is not recommended unless grass is sparse or it is the end of the mowing season.

Alternate mowing direction to keep the grass growing straight and better disperstion of the clippings.

Remember, grass grows at different rates at different time of the year. Mow more often in the early spring to maintain the same cutting height. As the growth rate slows in mid summer, mow less frequently. If you cannot mow at a regualr interval, mow at a high cutting height; then mow again two days later at a lower cutting height.

Raise the cutting height of the mower if the cutting width of the mower is wider than the previous mower. This ensures that uneven turf is not cut too short.

Raise the cutting height of the mower if the grass if slightly taller than normal or if it contains a high degree of moisture. Then mow it again with the cutting height set lower.

If the machine's forward motion must be stopped while mowing, a clump of grass clippings may drop onto your lawn. To avoid this, move onto a previously cut area with the blades engaged.

WARNING: Never direct discharge of material from mower deck towards bystanders.

WARNING: Never operate the mower deck with discharge chute removed or in raised position.

WARNING: Always check area to be mown for rocks and other debris before mowing.

Mower deck operation

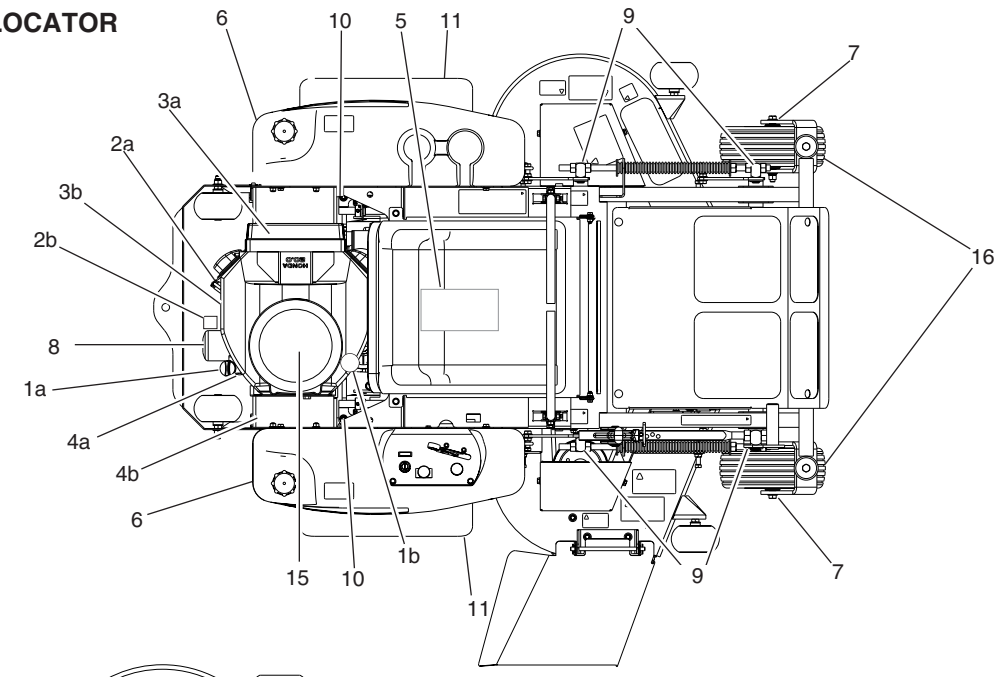
DANGER: Never attempt to make any adjustments to the mower deck while the engine is running or with the deck drive clutch engaged. Mower blades cannot be seen and are located very close to deck housing. Fingers and toes can be cut off instantly.

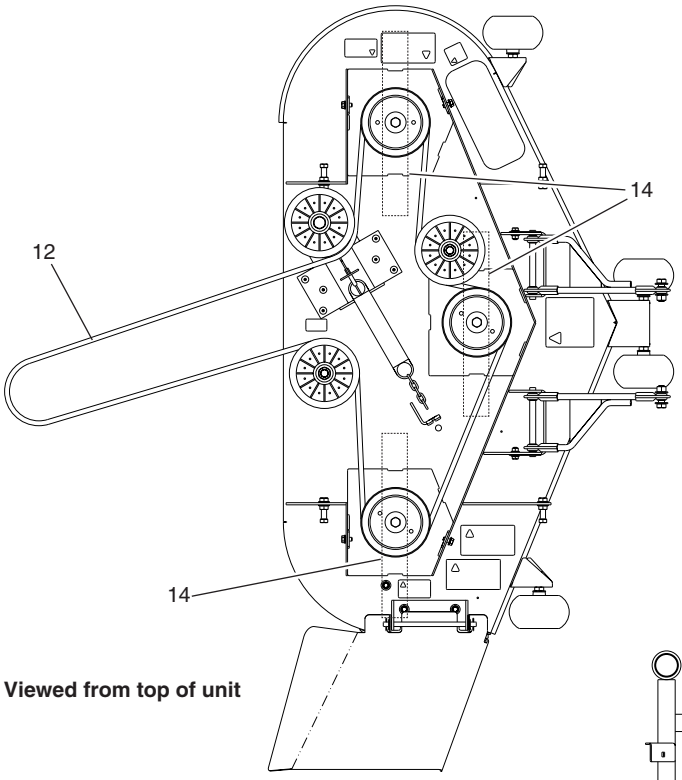
With the engine running, engage the deck clutch switch (Fig. 3-2) and advance engine throttle to full rpm.

NOTE: Engaging the deck clutch at high engine rpm or when under heavy load (in tall grass for example) can cause belts and/or electric clutch to slip, resulting in premature wear or possible damage.

MAINTENANCE

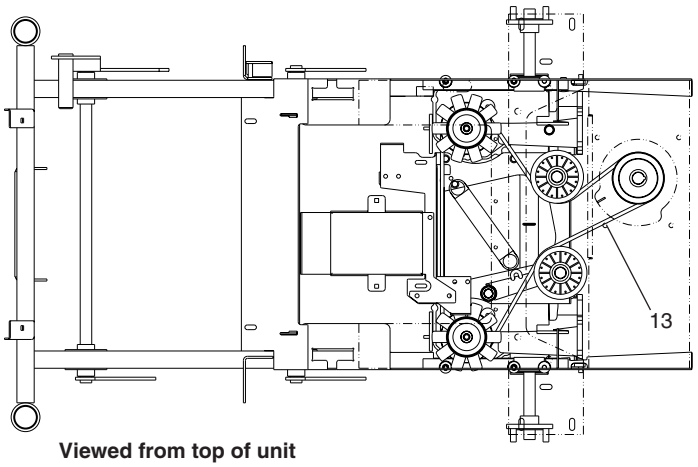
MAINTENANCE LOCATOR CHART





Viewed from top of unit

1a. Engine Oil Fill & Dipstick (Honda)
1b. Engine Oil Fill & Dipstick (Briggs & Stratton)
2a. Fuel Filter (Honda)
2b. Fuel Filter (Briggs & Stratton)
3a. Engine Air Cleaner (Honda)
3b. Engine Air Cleaner (Briggs & Stratton)
4a. Engine Oil Drain Plug (Honda)
4b. Engine Oil Drain Plug (Briggs & Stratton)
5. Battery
6. Fuel Tanks
7. Gauge Wheel Bearing Zerks (2)
8. Engine Oil Filter
9. Deck Lift Pivot Zerks (4)
10. Park Brake Switch (2)
11. Drive Tire
12. Deck Belt
13. Pump Belt
14. Blades
15. Engine Air Intake Screen
16. Front Gauge Wheel Tires



Viewed from top of unit

Figure 4-1

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HOURS	ANNUALLY OR 100 HOURS
Verify safety start interlock system	Prior to each use	
Visually inspect unit for loose hardware and/or damaged parts	Prior to each use	
Visually inspect tires	Prior to each use	
Check oil level, engine (1)	Prior to each use or every 4 hrs.	
Clean air intake screen (4)	Prior to each use or every 4 hrs.	
Clean foam element (4)	Prior to each use or every 4 hrs.	
Check fuel level	Prior to each use	
Blades - sharpen & securely fastened	Prior to each use	
Discharge chute - securely in place & in lowest position	Prior to each use	
Grease deck height pivots	x	
Grease gauge wheel bearings	x	
Change engine oil & filter (1) (3)	x	
Clean cylinder and head fins (a)	x	
Check battery connections	x	
Check tire pressure with a gauge	x	
Clean engine exterior (a)	x	
Replace air cleaner paper element (4)	x	
Clean and regap spark plugs (a)		x
Check pump and deck belt tension & condition (5)		x
Check fuel and hydraulic lines (6)		x
Check fuel valve and grommet (6)		x
Tighten lug nuts on wheels (2)		x
Change fuel filter		x
Replace spark plugs		x
Change C-IZT pump/motor transmission oil & filter (7)	Every 200 hours or 2 years	

NOTES:
1. Initial oil change is after 5 hours of operation. Thereafter, change oil after every 40 hours operation. Change more often under dusty or dirty conditions and during hot weather periods.
2. Torque initially and after first 2 hours of operation.
3. Change engine oil filter per the engine manufacturer's recommendations. Refer to Engine Owner's Manual for recommendations and other maintenance items.
4. Service more often under dusty or dirty conditions.
5. Inspect every 6 months or 100 hours and replace if worn or cracking is noticed. Otherwise, **replace every 300 hours or 3 years** whichever comes first.
6. Check fuel line hoses, fuel valve and grommet for any cracks or leaks
7. Change the filter and oil using 20W50 motor oil.
REFERENCES:
a — Refer to Engine Owner's Manual
NOTE: After completing maintenance cycle (100 hours), repeat cycle.

Introduction

WARNING: Unless specifically required, **DO NOT** have engine running when servicing or making adjustments to tractor. Place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any maintenance. Repairs or maintenance requiring engine power should be performed by trained personnel only. To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area. Read and observe safety warnings in front of manual.

DANGER: Before working on or under the deck, make certain engine cannot be accidentally started. Shut engine off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.

DANGER: Exercise caution when working under the deck as the mower blades are extremely sharp. Wearing gloves is advisable when working around or with the blades.

WARNING: Except when changing or checking belt, **always** keep belt covers on mower deck for safety as well as cleanliness.

WARNING: When possible clean under mower, using a stick or similar instrument making sure that no part of the body, especially arms and hands are under mower.

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow on a routine basis.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

WARNING: Keep your machine clean and remove any deposits of trash and clippings, which can cause engine fires and hydraulic overheating as well as excessive belt wear.

Clear away heavy build-up of grease, oil and dirt, especially in the engine and under the seat platform areas; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Daily inspect mower for grass clippings and wire and string tangles. The underside of the mower deck will collect a build-up of grass clippings and dirt, especially when grass is wet or has high moisture content. This build-up will harden, restricting blade and air movement and will probably show a poorer quality of cutting. Therefore it should be removed routinely.

To do this it will be necessary to raise and block the deck, using jack stands or blocks, in the full up position and scrape the build-up from underneath.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Hustler service center when assistance is needed.

Torque values

WARNING: Particular attention must be given to tightening the drive wheel lug nuts and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury.

Torque values given below:

	Ft-lbs.	Nm
Wheel (lug) nuts	65-75	88.14-101.7
Blade spindle bolt top	118	160.01
Blade spindle bolt bottom	118	160.01

It is recommended that these be checked after the first 2 hours of operation, initially and every 50 hours following removal for repair or replacement.

For all other torques refer to the tractor parts manual (365262) for standard torque chart. See page 8-3 for ordering information.

For engine torque values, see engine owner's manual.

Tires

It is important for level mowing that the tires have the same amount of air pressure. The recommended pressure are:

Drive wheels.....8-10 psi
Gauge wheels .....8-10 psi

Solid fill tires are not recommended for Hustler turf equipment. On any machine, with solid filled tires, the warranty claim will be denied.

Lubrication

1. Grease the front gauge wheel bearings per the Maintenance Schedule. Use SAE multi-purpose grease.
2. Grease the four deck lift pivots, located to the side of the operator's footrest per the Maintenance Schedule. Use SAE multi-purpose grease.

Electrical system

The electrical system is a 12 volt, negative ground. Recommended battery size is a garden tractor BCI group U1R with 225 or better cranking AMP rating. A maintenance-free battery is recommended. Otherwise, follow battery manufacturer's maintenance, safety, storing and charging specifications.

The battery is located under the seat platform. Fig. 4-2

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

WARNING: Avoid skin and clothing contact with battery acid. Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.
Do not drink the battery electrolyte.
Do not allow open flame near the battery when charging.
Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame.
Always remove the negative ground first and replace it last.
Do not overfill battery.
Electrolyte may overflow and damage paint, wiring or structure.
When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Clean the battery terminals with a solution of four parts water and one part baking soda when they become corroded.

WARNING: Shorts caused by battery terminals or metal tools touching metal tractor components can cause sparks. Sparks can cause a battery gas explosion which will result in personal injury.
Prevent the battery terminals from touching any metal tractor parts when removing or installing the battery.
Do not allow metal tools to short between the battery terminals and metal tractor parts.

WARNING: Incorrect battery cable routing could cause damage to the tractor and battery cables. This can cause sparks which can cause a battery gas explosion which will result in personal injury.
Always **disconnect** the negative (black) battery cable before disconnecting the positive (red) cable.
Always **connect** the positive (red) battery cable before connecting the negative (black) cable.

Common circuit failures are usually caused by shorting, corroded or dirty terminals; loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components may also fail, causing a shorted or open circuit.

The electrical system is protected by fuses located on the right fuel tank instrument panel. Fig. 4-3 The fuses are as follows:

Main - 20 amp, blade-type
Clutch/Aux - 10 amp, blade-type

Before attempting any failure diagnosis of the electrical system, use a test light or voltmeter to check the battery voltage. If the battery voltage is satisfactory, check the cleanliness and tightness of the terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Major overhaul or repair of the starting motor or charging system should be performed by trained technicians only.

Access to integrated pump/motor units

The integrated pump/motor units are accessed by lifting the seat platform. The seat platform is hinged at the front. To raise it, remove the two cap screws and tilt seat platform up and forward. (Fig. 4-4)

If the seat is equipped with the optional arm rest kit, make certain to place the control arms in the park brake position and pivot the arm rests upward before placing the seat platform in the full forward position to prevent damage to the arm rests.

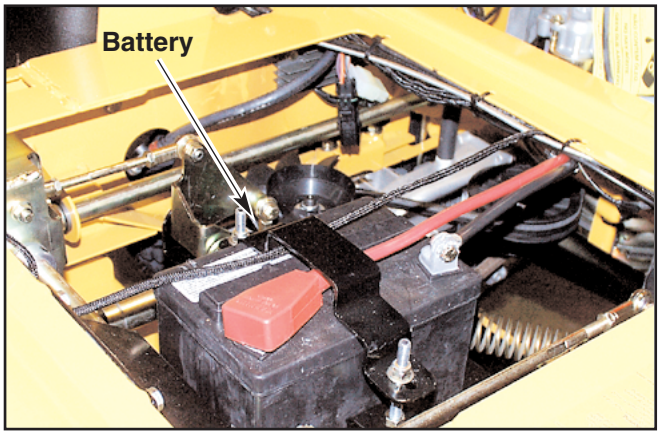


Figure 4-2

Figure 4-3

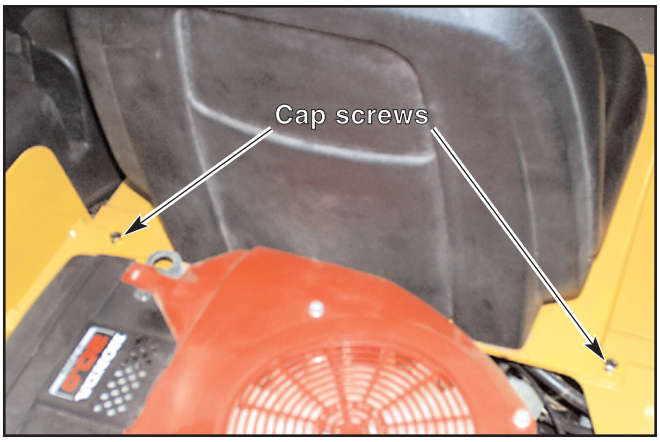


Figure 4-4

Hydraulic system

The Hustler FasTrak is equipped with two Hydro-Gear C-IZT integrated pump/motor transmissions. Fig. 4-5

Units built prior to serial number 03037002 are sealed for life and do not require scheduled service.

Units starting with serial number 03037002 and later have a replaceable filter which will require replacement every 200 hours or 2 years whichever comes first. The required service involves draining the oil and installing a new filter kit (Hustler p/n 789511). Fill with new 20W50 engine oil.

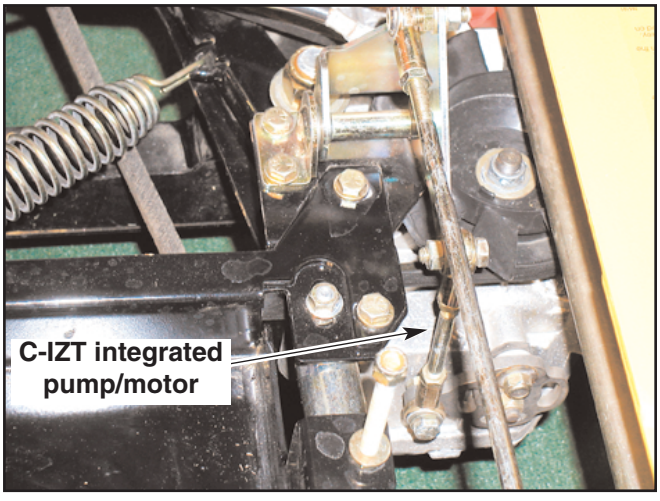
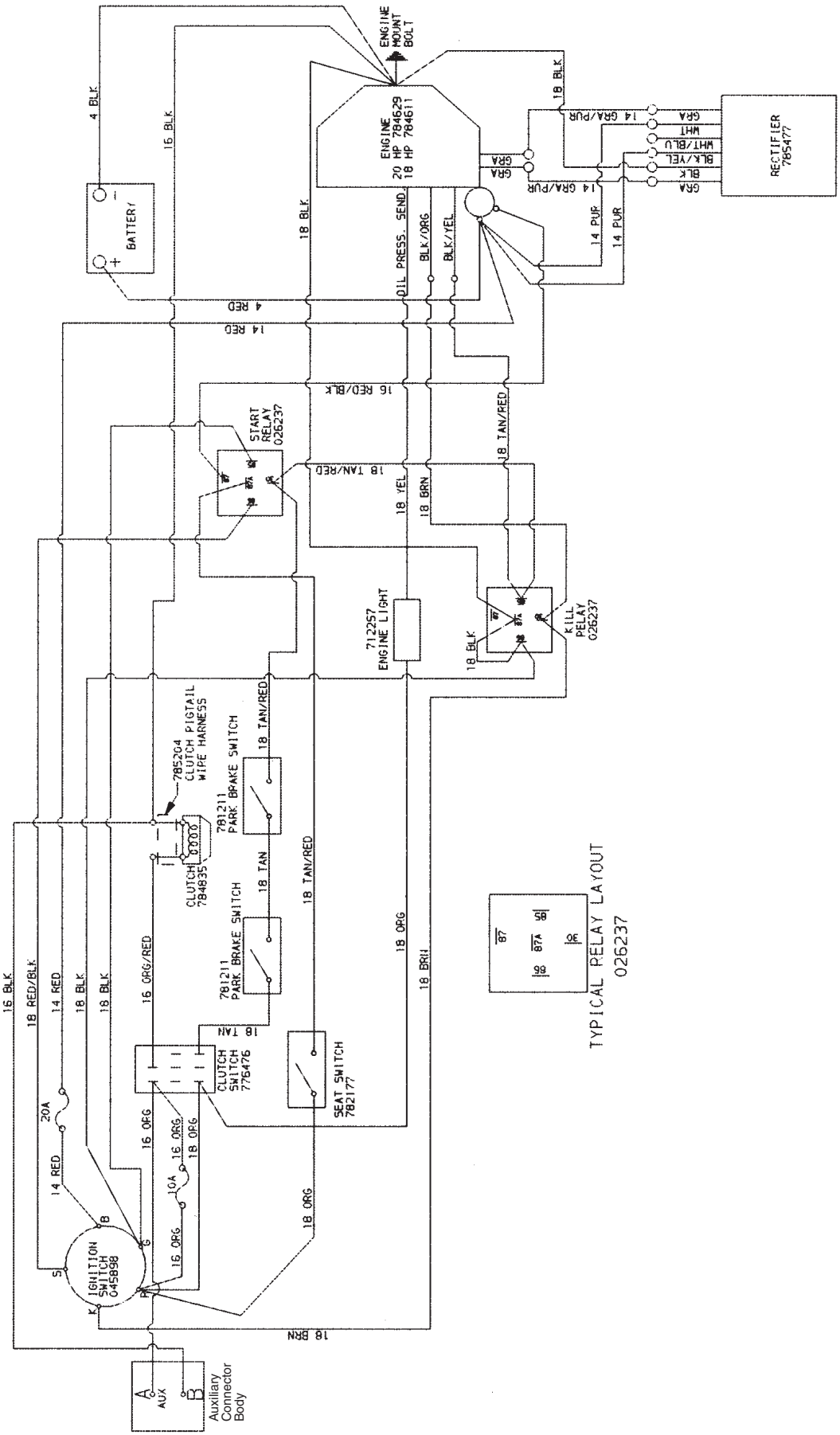
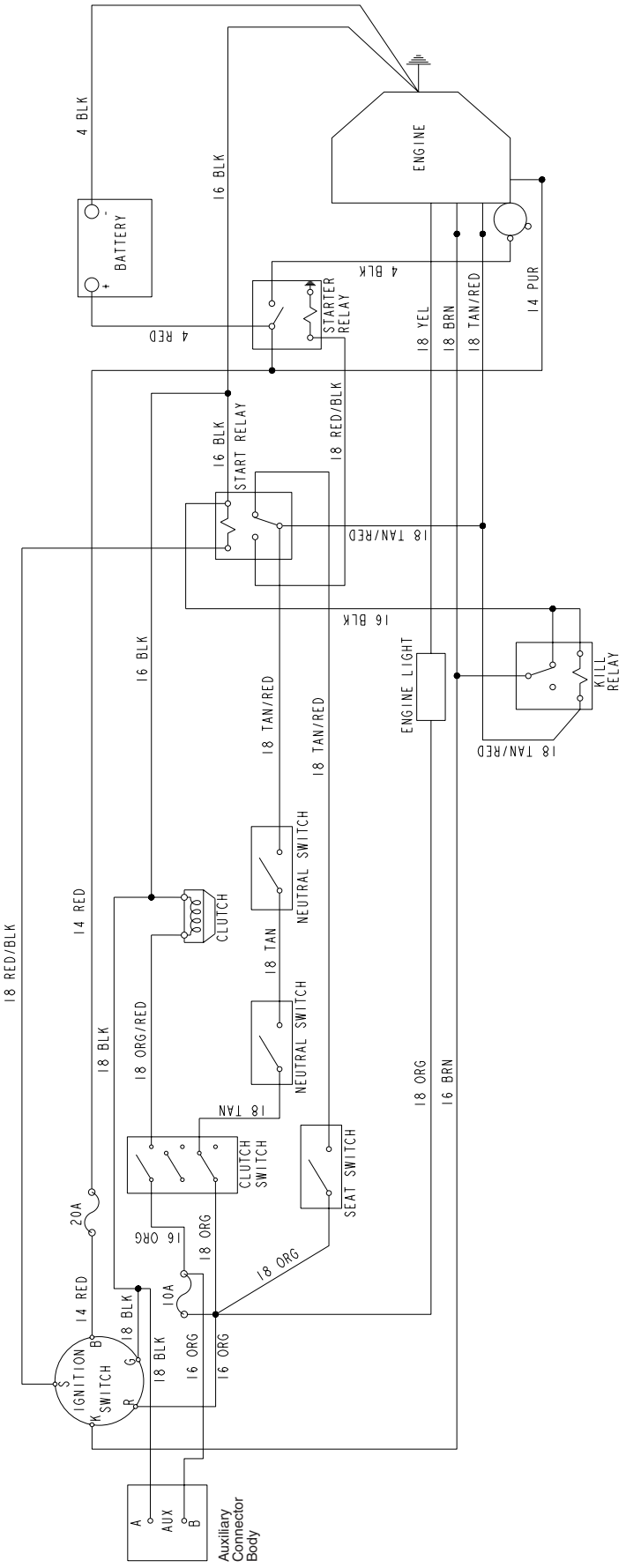


Figure 4-5

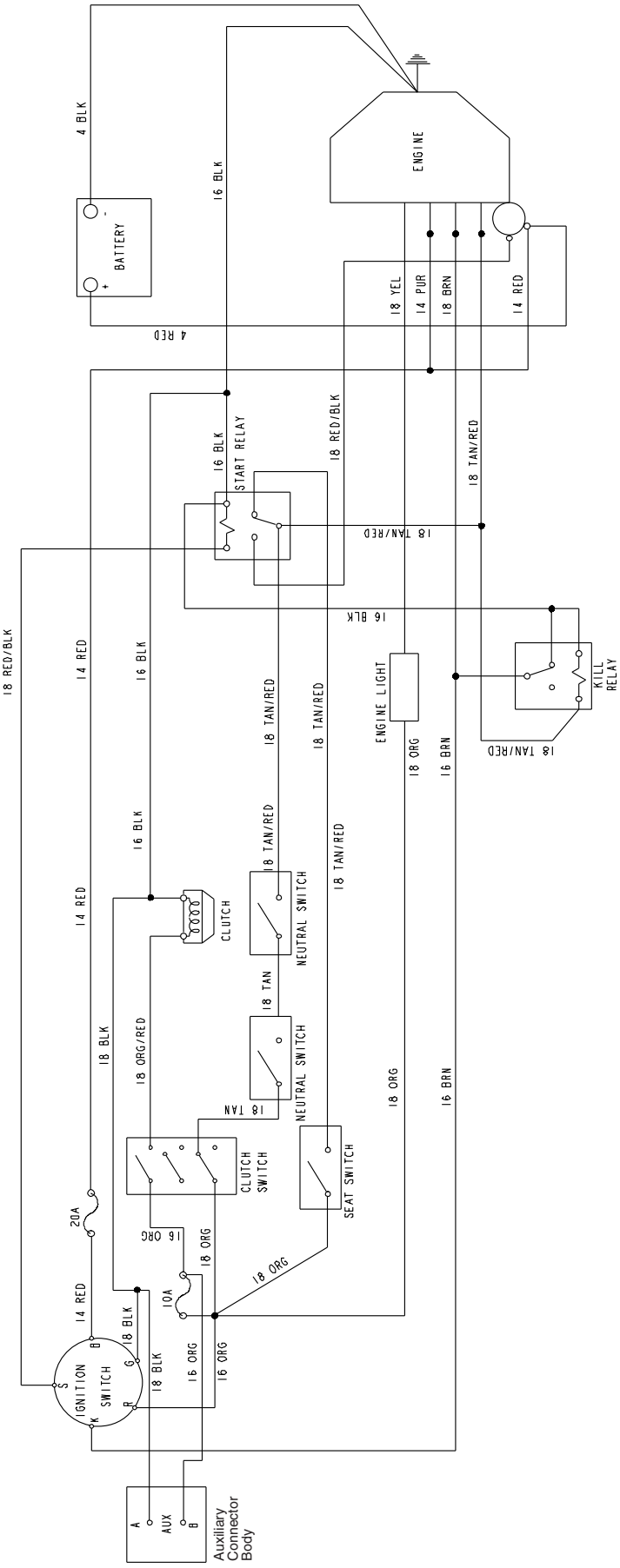
Wiring Schematic - 926501, 926519, 926592



Wiring Schematic - 926600, 926774



Wiring Schematic - 926527



WARNING: Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.**

To replace the filter use the following procedure:

1. Raise and block the tractor up so the drive wheels are off the floor. Place the jack stands under the engine guard to support the machine. Fig. 4-6

WARNING: Make sure the transmissions are cool before performing service procedures.

2. Remove the drain plug and filter from the integrated pump/motor transmission and drain the oil into a drain pan. Dispose of the oil in a proper manner. This oil will not be re-used. Fig. 4-7
3. Install a new filter kit into the transmission.
4. Remove the lower side plug and install the magnetic plug included with the kit. Fig. 4-7
5. Repeat steps 2 through 4 for the other side.
6. Lower the tractor. **NOTE:** The FasTrak must be level when filling and checking the oil.
7. Remove the breather hose and nipple from the top of the transmission and fill with new, clean 20W50 engine oil. It will require approximately 2 - 2.46 quarts of oil to fill the transmission. Re-attach the nipple and breather hose. Fig. 4-8

WARNING: Do not overfill. If you overfill the unit while it is "cold", it may overflow as it reaches normal operating temperatures. The oil level should be within the operating range indicated on the dipstick. This will allow the space needed for the oil to expand as it warms up. Fig. 4-9

8. Start the unit and drive it forward and rearward 5 times approximately 10 - 20 feet each time.
   If it feels smooth then the unit is ready to operate.
   If either side moves slower than the other or sluggish then the system will need to be purged. Follow steps 9 through 12 until the air is purged from the system.
9. Raise and block the tractor up so the drive wheels are off the floor.
10. With the bypass valves open (Fig. 4-10), on both transmissions, an operator on the seat and the engine running at 1/2 throttle, slowly move both control levers forward and rearward 5 to 6 times to allow air to be purged from the system. As this occurs, the oil level will drop.
11. With both bypass valves closed (Fig. 4-11) and the engine running, slowly move both control levers forward and rearward 5 - 6 times. Stop engine and place steering levers in the park brake position. Lower the tractor and check the oil level. Add oil as required.
12. Start the unit and drive it forward and rearward 5 times approximately 10 - 20 feet each time.
    If it feels smooth then the unit is ready to operate.
    If either side moves slower than the other or sluggish then the system will need to be purged again. Follow steps 9 through 12

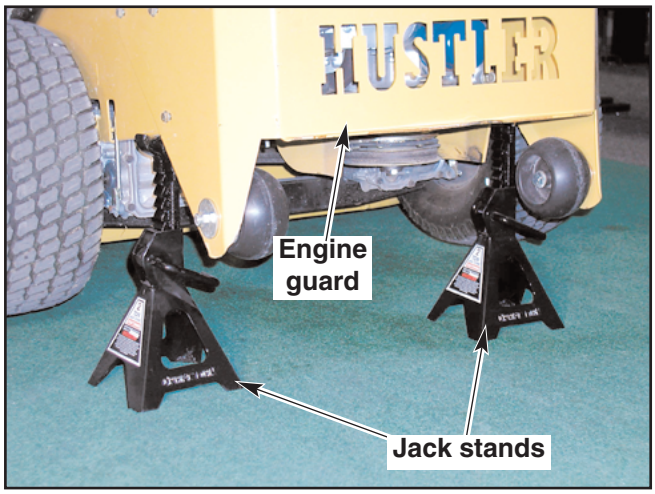


Figure 4-6

NOTE: The C-IZT integrated pump/motor transmissions are equipped with bypass valves. For more information refer to Operation section, Moving tractor with stalled engine.

WARNING: When washing the mower, direct spray away (especially if using a power washer) from the Hydro-Gear C-IZT transmission's seals to prevent water intrusion and to ensure component performance.

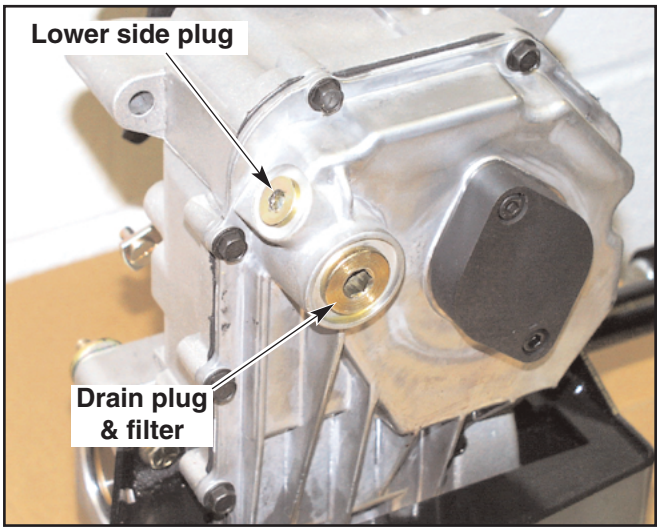


Figure 4-7

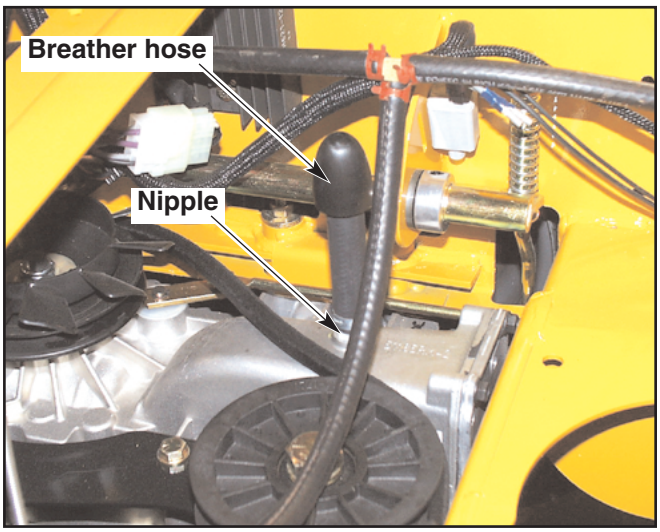


Figure 4-8

Fuel system

DANGER: Observe usual fuel handling precautions:
Do not smoke while refueling.
Do not fill tank with engine running or while engine is hot. Clean up any gasoline spills.
Allow engine to cool before storing machine inside a building.
Keep fuel away from open flame or spark and store machine away from open flame or spark if there is fuel in the tank.
Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive. A fire or explosion from gasoline can burn you and others and can damage property.
Refuel outdoors preferably, or in well ventilated areas.
Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
Store gasoline in an approved container and keep it out of the reach of children. Never buy more than a 30 day supply of gasoline.
Always place gasoline containers on the ground away from your vehicle before filling.

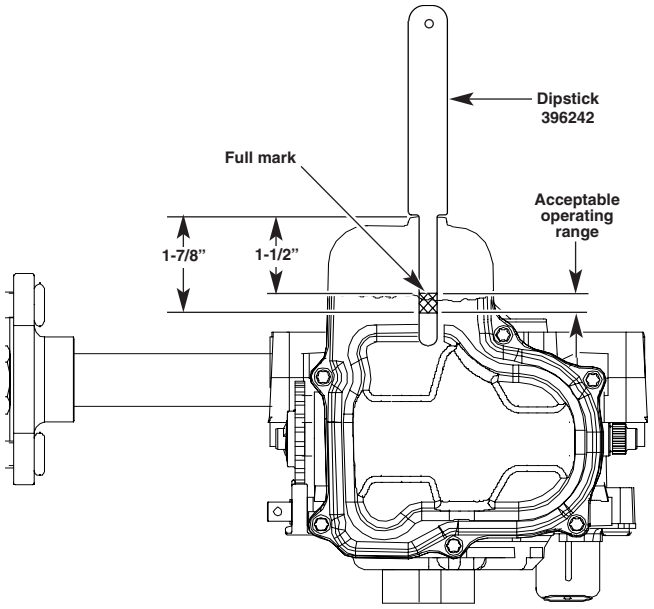


Figure 4-9

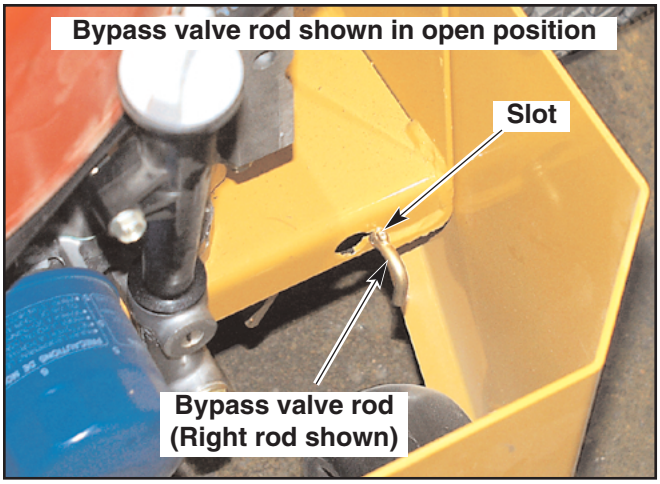


Figure 4-10

Do not fill gasoline containers inside a vehicle or on a truck or trailer as interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.

When practical, remove equipment from the truck or trailer and refuel the equipment with its wheels on the ground. If this is not possible, then refuel the equipment on the truck or trailer using a portable container and not a gasoline dispenser nozzle. If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.

WARNING: Gasoline is harmful or fatal if swallowed.
Long-term exposure to vapors can cause serious injury and illness.
Avoid prolonged breathing of vapors.
Keep face away from nozzle and gas tank or conditioner opening.
Keep gas away from eyes and skin.

The fuel tanks are located in the tractor's fenders. (Fig. 4-12) Total capacity for the fuel tanks is 12.2 U.S. gallon (46.18 liter).

When filling the fuel tanks disengage deck clutch, place control levers in park brake position, and stop tractor engine. Clean around the fuel tank cap and remove the cap and begin filling. When finished, screw the cap on securely and wipe up any spilled gasoline.

Use regular unleaded gasoline with an octane rating of 87 or higher. **IMPORTANT:** Never use methanol, gasoline containing methanol, or

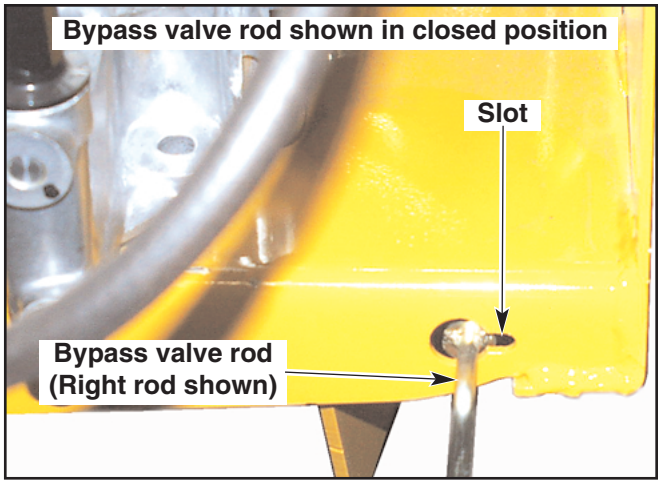


Figure 4-11

Figure 4-12

gasohol containing more than 10% ethanol because the fuel system could be damaged. Do not mix oil with gasoline.

Using a fuel stabilizer/conditioner in the tractor can provide benefits such as:

1. Keeps gasoline fresh during storage of 90 days or less. For longer storage, drain the fuel tanks.
2. Cleans the engine during operation.
3. Eliminates gum-like varnish buildup in the fuel system.

IMPORTANT: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas. Follow the gas stabilizer/conditioner manufacturer's directions for best results.

The fuel filter (Fig. 4-13A & 4-13B) is installed in the fuel line between fuel tanks and engine fuel pump on the rear left side of the engine. Replace filter annually or after every 100 hours of operation, whichever occurs first. For fuel filter removal refer to the engine owner's manual

When replacing the fuel filter, check the fuel line hoses and fuel shut-off valve grommet for any cracks or leaks. Replace as needed.

Fuel Shut-off Valves

On early units a fuel shut-off valve is located on the outlet port of each fuel tank. (Fig. 4-14) Close these valves (turn clockwise) to prevent fuel flow to the engine. To drain a fuel tank equipped with this fuel shut-off valve use the following method:

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Close the fuel shut-off valve on both of the fuel tanks.
3. Trace the fuel line from the shut-off valve to the tee. Loosen the hose clamp and remove the fuel line from the tee.
4. Place the end of the fuel line in a clean certified fuel container and open the fuel shut-off valve to drain the fuel from the fuel tank.
5. When fuel tank is drained re-route the fuel line to the tee and attach

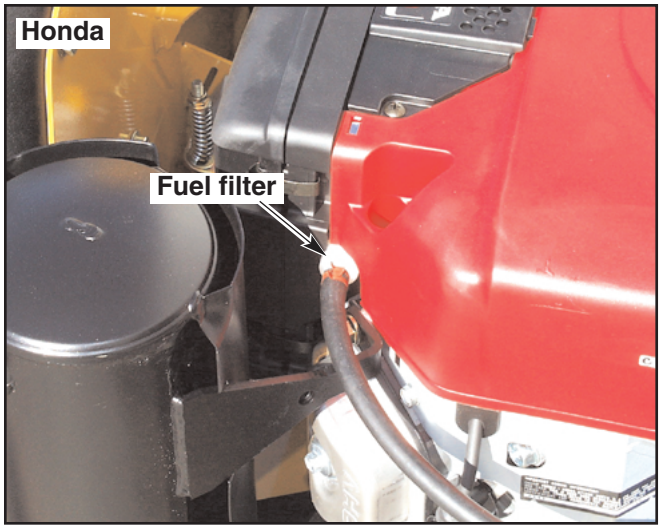


Figure 4-13A

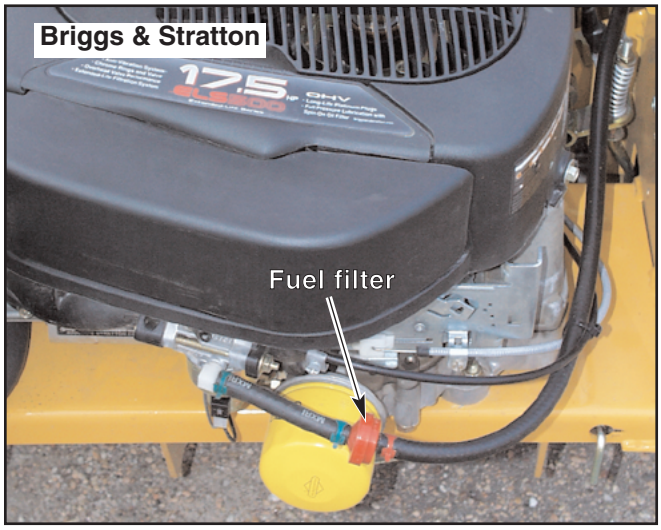


Figure 4-13B

to the tee. Clamp fuel line to tee.

6. Fill fuel tank with proper grade of gasoline and open shut-off valves.

Current production units have a fuel shut-off valve (Hustler p/n 745059) located behind the seat to the right side of the operator. (Fig. 4-15) Close this valve (center position) to prevent fuel flow to the engine. The valve's two other positions are front and rear. To drain a fuel tank equipped with this fuel shut-off valve kit use the following method:

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Turn the fuel valve to the closed position (middle position). Fig. 4-15
3. Disconnect the tank to fuel valve line from the valve and clamp or cap the end of it.
4. Route the fuel line until it is lower than the fuel tank fitting.
5. Place the end of the fuel line in a clean certified fuel container and unclamp or uncap the line to permit the fuel to drain from the fuel tank.
6. When fuel tank is drained re-route the fuel line to the shut-off valve and attach it to the tee. Clamp fuel line to shut-off valve.
7. Fill fuel tank with proper grade of gasoline and open shut-off valve (front or rear position).

Engine oil and filter

Check engine oil daily and after every 4 hours of operation. Crankcase dipstick and oil filler tube are located as shown in Fig. 4-8A & 4-8B. Tractor must be setting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities.

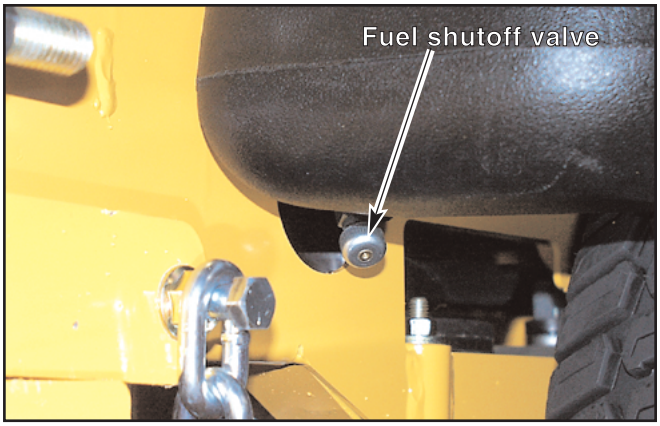


Figure 4-14

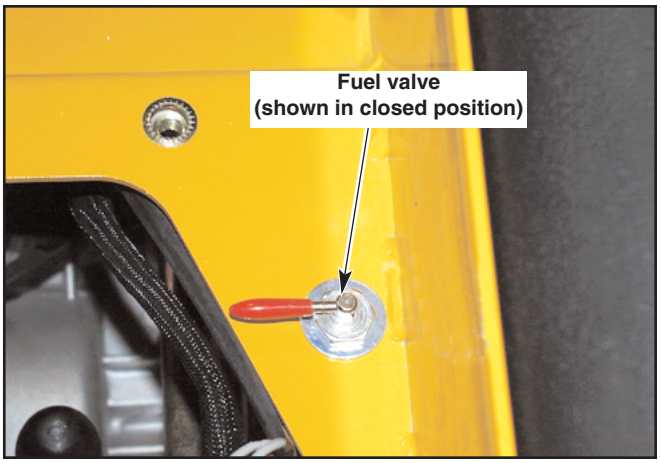


Figure 4-15

Change the engine oil and filter after the first 5 hours of operation, per the engine manufacturer's recommendations after that. If tractor is being operated in extremely dirty conditions, then it is recommended oil be changed more frequently.

The oil drain and oil filter are located at the rear of the engine. Fig. 4-16A & 4-16B

Engine air filter

Perform engine air filter maintenance per the Engine Owner's manual.

General engine maintenance

Detailed instructions and recommendations for break-in and regular maintenance are specified in the Engine Owner's manual. Please refer to this manual for engine servicing, lubricating oil levels with quality and viscosity recommendations, bolt torques, etc. The engine warranty is backed by the manufacturer. Special attention should be paid to applicable data which will not be duplicated here.

Belt replacement

Figures 4-17 and 4-18 show diagrams and descriptions of the unit's belt drive systems.

Inspect these belts frequently for wear and serviceability. Replace a belt that shows signs of severe cuts, tears, separation, weather checking and cracking, or burns caused by slipping. Slight raveling of belt covering does not indicate failure, trim ravelings with a sharp knife.

WARNING: If the pump belt fails, loss of control may occur when operating on a slope.

Inspect the belt pulley grooves and flanges for wear. A new belt, or one in good condition, should never run against the bottom of the groove. Replace the pulley when this is the case, otherwise belt will lose power and slip excessively.

Never pry a belt to get it on a pulley as this will cut or damage the fibers of the belt covering.

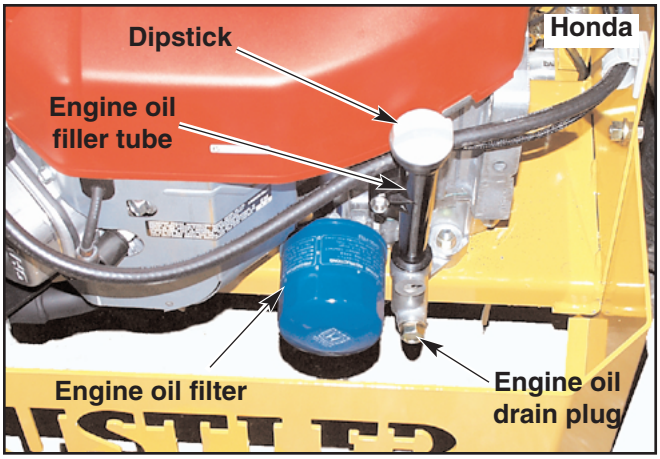


Figure 4-16A

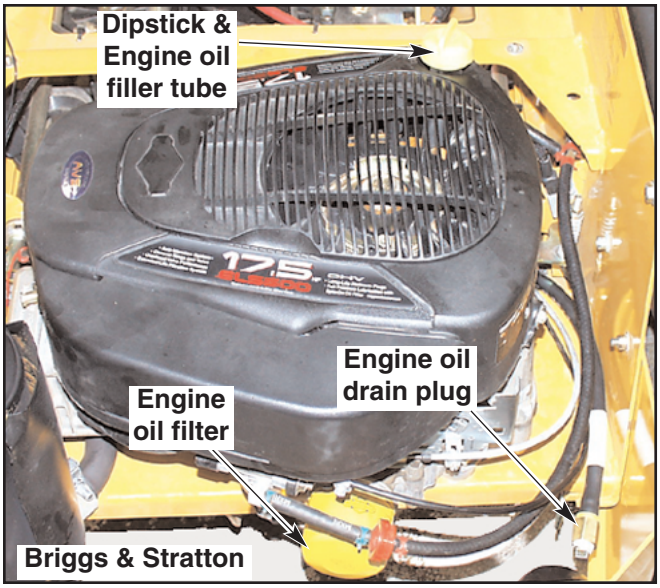


Figure 4-16B

Keep oil and grease away from belts, and never use belt dressings. Any of these will destroy the belt composition in a very short time.

Deck belt replacement

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Place the deck in the lowest position.
3. Remove the deck belt covers.
4. Release the deck belt tension by pulling on the belt tension chain and sliding the chain out of the anchor bracket slot. This will relieve the tension on the deck belt idler spring. Fig. 4-17
5. Pull the idler to the left of the machine to provide maximum belt clearance.
6. Remove the existing belt and replace with a new belt.
7. Route the new belt per Fig. 4-17.
8. Re-tension the deck belt idler per the Deck drive belt adjustment section on page 5-4.
9. Re-install the deck belt covers.
10. Re-attach the negative battery cable.

Integrated pump/motor drive belt replacement

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Place the deck in the lowest position.
3. The deck belt must be removed from the clutch pulley first by releasing the deck belt tension by pulling on the belt tension chain and sliding the chain out of the anchor bracket slot. This will relieve the tension on the deck belt idler spring. Fig. 4-18
4. Remove the deck drive belt from the electric clutch pulley. This belt does not need to be removed from any of the other pulleys.
5. Release the tension from the integrated pump/motor belt by pulling on the idler pulley (extending spring carefully) and sliding the belt over it. Use caution when releasing the idler pulley as there is still tension on it and it will snap back into position. Fig. 4-18
6. Slide the belt off the engine pulley. The belt will have to be slid above the engine pulley to allow the belt to be removed from the other pulleys. Fig. 4-19
7. Slide the belt over the integrated pump/motor pulleys.
8. Slide the belt off of the fixed idler pulley.
9. The belt can now be removed from above the engine pulley.

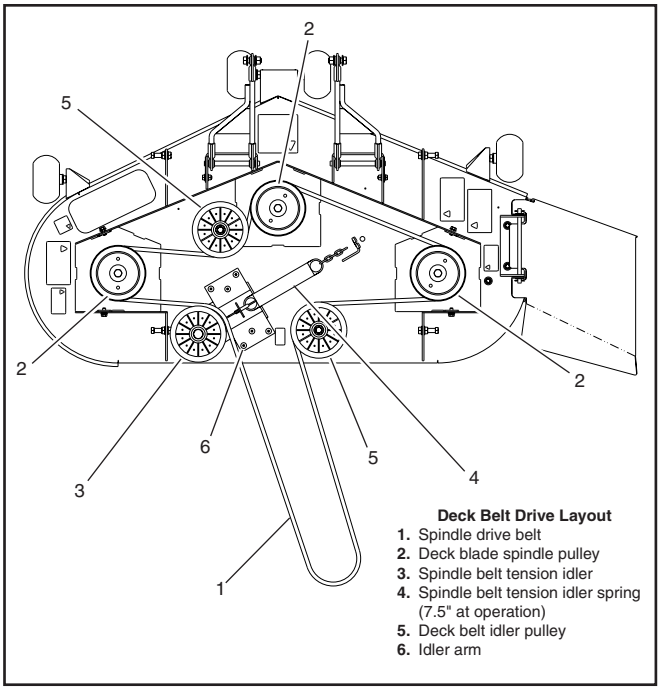


Figure 4-17

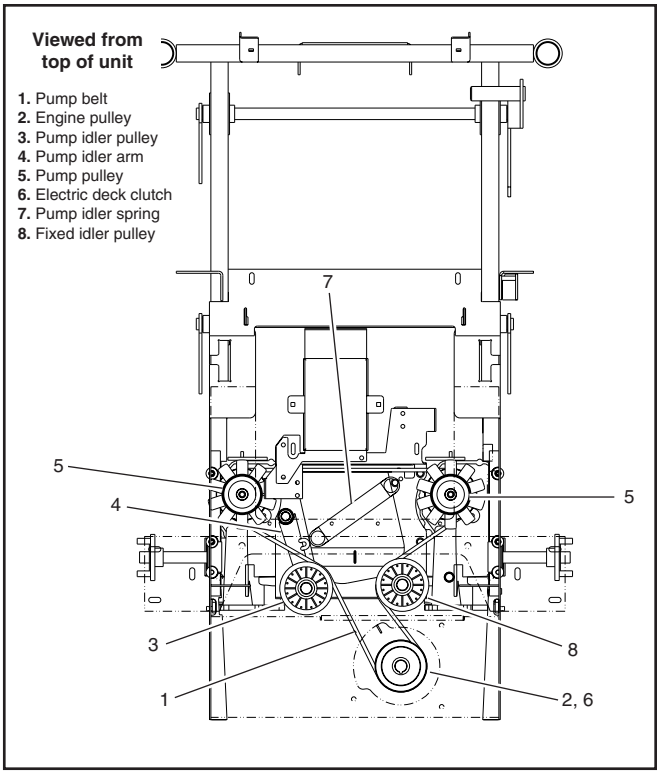


Figure 4-18

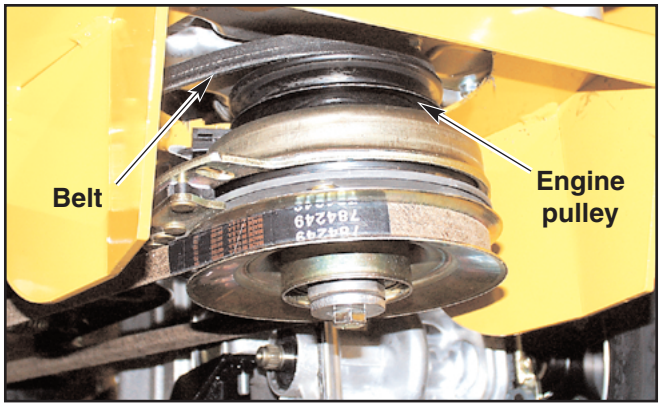


Figure 4-19

10. Install new belt by sliding it up and over the engine pulley. Make certain it is not in the pulley groove at this time but is above the pulley.
11. Slide the belt over the fixed idler pulley and then over the integrated pump/motor pulleys.
12. Slide the belt onto the engine pulley.
13. Pull the idler pulley over and slide the belt onto it. Make certain to keep fingers from getting between the belt and the pulley when the pulley is released and tension is re-established.
14. Re-install the deck drive belt on the electric clutch pulley and make sure it is routed properly on all of the deck pulleys.
15. Re-tension the deck belt idler per the Deck drive belt adjustment section on page 5-4.
16. Re-attach the negative battery cable.

Mower blade maintenance

Check the mower blades daily, they are the key to power efficiency and well groomed turf. Keep them sharp, a dull blade will tear rather than cut the grass, leaving a brown ragged top on the grass within a few hours. A dull blade also requires more power from the engine.

Replace any blade which is bent, cracked or broken.

WARNING: Never attempt to straighten a bent blade by heating, or weld a cracked or broken blade as the blade may break and cause serious injury. Replace worn or damaged blades.

DANGER: Never work with blades while engine is running or deck clutch switch is engaged (on).

Always place deck clutch switch in the **disengaged** position, place control levers in the park brake position and turn engine off and disconnect negative battery cable. Block up mower when you **must** work under it. Wear gloves when handling blades. **Always check for blade damage** if mower strikes rock, branch or other foreign object during mowing!

Mower blade removal

Use a 15/16" wrench to remove the 5/8" cap screw holding the blade to the spindle shaft from underneath.

Sharpen the blades on a grinder following pattern as shown (Fig. 4-20). Touch-up sharpening can be done with a file.

Check the blades for balance following grinding. A commercial balancing tool is available through most hardware supply stores, or balancing can be done by placing the blade on an inverted line punch or 5/8" bolt. Blade should not lean or tilt. Spin the blade slowly, blade should not wobble. If blade is out of balance, true it up before reinstalling.

Lay the blade on a flat surface and check for distortion (Fig. 4-21 and 4-22). Replace any distorted blade.

Do not re-use spindle bolts which have stripped, worn or undercut threads. Torque bolts on spindles to 118 foot-pounds when reinstalling blades.

IMPORTANT: The blade sail (curved part) must be pointing upward toward the inside of the deck to ensure proper cutting.

WARNING: When mounting blades, rotate them after installation to ensure blade tips do not touch each other or sides of the mower.

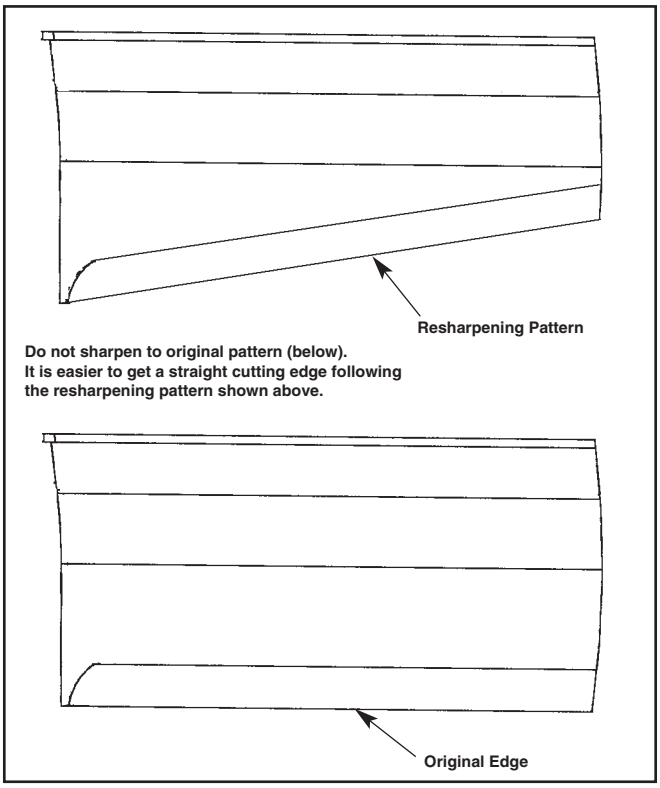

Resharpening Pattern
Do not sharpen to original pattern (below).
It is easier to get a straight cutting edge following
the resharpening pattern shown above.
Original Edge

Figure 4-20

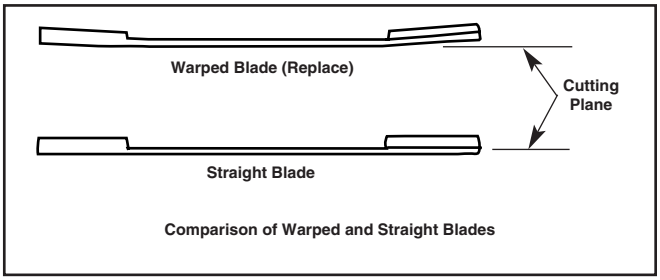


Figure 4-21

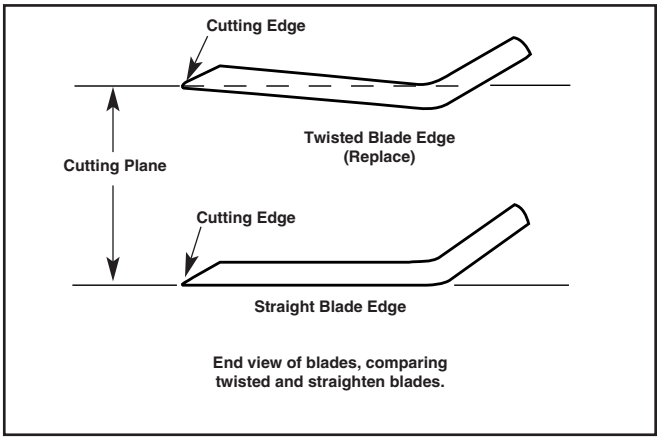


Figure 4-22

WARNING: Failure to correctly torque the bolt may result in the loss of the blade which can cause serious injury.

ADJUSTMENTS

Introduction

WARNING: Unless specifically required, **DO NOT** have engine running when servicing or making adjustments to tractor. Place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments. Repairs or maintenance requiring engine power should be performed by trained personnel only. To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area. Read and observe safety warnings in front of manual.

Your FasTrak was adjusted before it left the factory and was checked during predelivery setup. However, after start-up and continued use, a certain amount of break-in wear will cause some adjustments to change.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

WARNING: Keep your machine clean and remove heavy deposits of trash and clippings, they can cause engine fires and hydraulic overheating as well as excessive belt wear.

Clear away heavy build-up of grease, oil and dirt, especially in the engine and under the seat platform areas; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Hustler service center when assistance is needed.

Torque values

WARNING: Particular attention must be given to tightening the drive wheel lug nuts and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury.

Torque values given below:

	Ft-lbs.	Nm
Wheel (lug) nuts	65-75	88.14-101.7
Blade spindle bolt top	118	160.01
Blade spindle bolt bottom	118	160.01

It is recommended that these be checked after the first 2 hours of operation, initially and every 50 hours following removal for repair or replacement.

For engine torque values, see engine owner's manual.

For all other torques refer to the tractor parts manual (365262) for standard torque chart. See page 8-3 for ordering information.

Seat adjustment

The seat can be adjusted forward and rearward by removing the two cap screws that lock the seat platform in place and pivoting the seat platform up and forward. Then loosen the four cap screws on the underneath side of the operator's platform. Position the seat where you have the best control of the machine and are the most comfortable and then tighten the cap screws. Fig. 5-1

Steering linkage

The neutral adjustment for the control levers in the neutral position is discussed in this section.

The tractor steering has been factory adjusted to eliminate creeping when the control levers are in the neutral position (Fig. 5-2). However, should the tractor begin to creep, the control lever linkage can be adjusted as follows:

Control Lever Neutral Adjustment

Before considering any adjustment, check the tire air pressure. Unequal tire pressure will cause the tractor to drift to one side. Refer to tire pressure information in the Maintenance section of this manual.

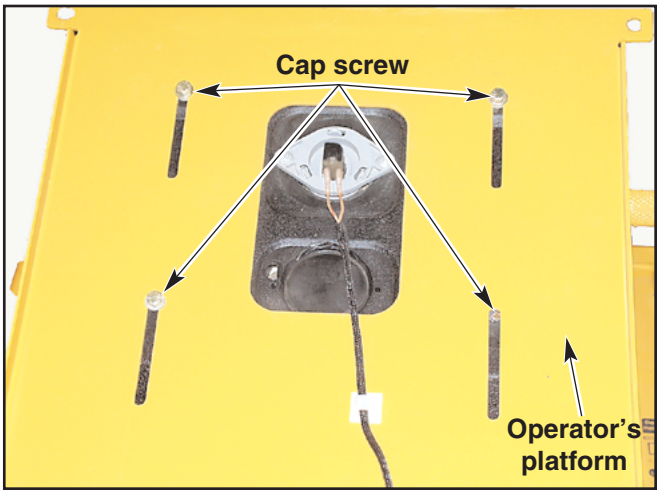


Figure 5-1

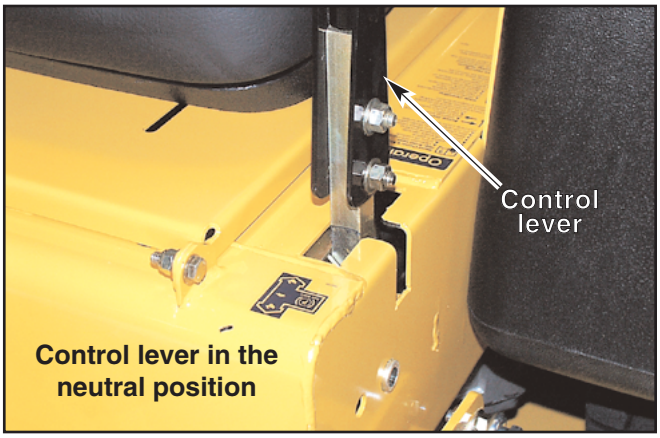


Figure 5-2

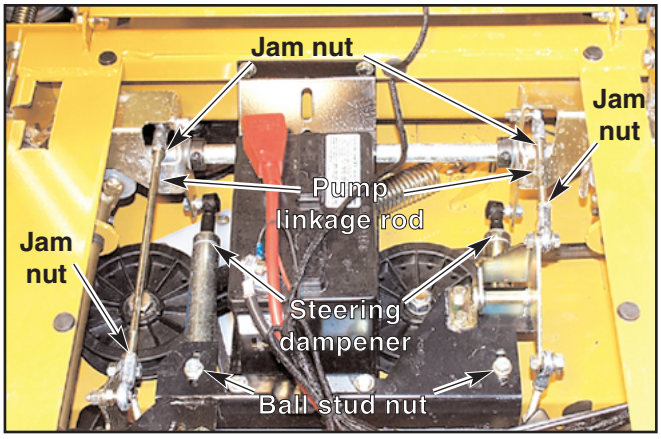


Figure 5-3

Fine adjustment to the unit's steering is made with the adjustable pump linkage rods. Fig. 5-3

Neutral is properly adjusted when the control levers are in the neutral position and the drive wheels are not turning.

If the tractor creeps in the neutral position the control linkage may be adjusted as follows:

1. Raise and block the tractor up so the drive wheels are off of the floor.

WARNING: Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.**

2. Position the control lever in the neutral position. Disengage the deck clutch switch Fig. 5-2.
3. Loosen the nut on the steering dampener's rear ball stud. Fig. 5-3
4. Remove the cotter key that connects the brake link to the brake pawl. Remove the brake link from the brake pawl. Fig. 5-8
5. Start the engine and observe which way the wheels are rotating.
6. If wheel(s) are rotating forward, loosen the jam nuts on the pump linkage rods and rotate the rod to lengthen the steering control linkage until the wheel(s) come to a stop. Fig. 5-3
   NOTE: The left linkage controls the left integrated pump/motor and the right linkage controls the right integrated pump/motor.
   Repeat for the opposite side if necessary.
   If wheel(s) are rotating in reverse then loosen the jam nuts on the pump linkage rods and rotate the rod to shorten the steering control linkage until the wheel(s) come to a stop. Fig. 5-3
   Repeat for the opposite side if necessary.
7. When both wheels remain in neutral, tighten the jam nuts to lock the pump linkage rod in place.
8. Test again by moving the control levers forward and backward before returning them to the neutral position. If the tires remain in neutral, the unit is now ready for operation.
9. Shut the engine off. Place the control levers in the neutral position and reconnect the brake link to the brake pawl. Re-insert the cotter key. Fig. 5-8
10. Re-tighten the steering dampener's rear ball stud after adjusting the dampener per the following instructions:

Steering dampener

The steering dampener (Fig. 5-4) is spring loaded to return the control levers to the neutral position from the reverse position. This gives the operator a sense of neutral during operation.

If the tractor does not return to neutral from reverse then adjust as follows:

To set the steering dampeners in the correct operating position follow these steps:

1. Shut engine off, place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments.
2. Place the control lever in the neutral position. Fig. 5-2
3. Loosen the steering dampener's rear ball stud.
4. Pull the dampener spring housing, to the rear, past the point that the internal spring is engaged.
5. Release the dampener spring housing and allow the internal spring to bring the housing back to the neutral position.
6. Tighten the nut on the steering dampener's rear ball stud.
7. To check, move the control lever to the reverse position and release. The control lever should return to the neutral position. If not, repeat steps 1 thru 6.

Control lever adjustment

The control levers can be adjusted for operator comfort. By loosening the cap screws that attaches the upper control lever to the lower lever (Fig. 5-5), the upper control lever can be pivoted to fit the operator's personal preference.

The control levers can also be adjusted up and down. Remove the cap screws and slide the upper control lever up or down and align the holes in it with the holes in lower lever. Re-install the cap screws and tighten.

The control levers should be adjusted so that they align with each other when in the neutral position.

Park brake spring adjustment

Occasionally check the park brake spring adjustment using the following method:

1. Shut engine off, place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments.
2. Position the control lever in the neutral position.
3. Make sure the brake actuator lever and the brake link are all the way down. Fig. 5-6

Figure 5-4

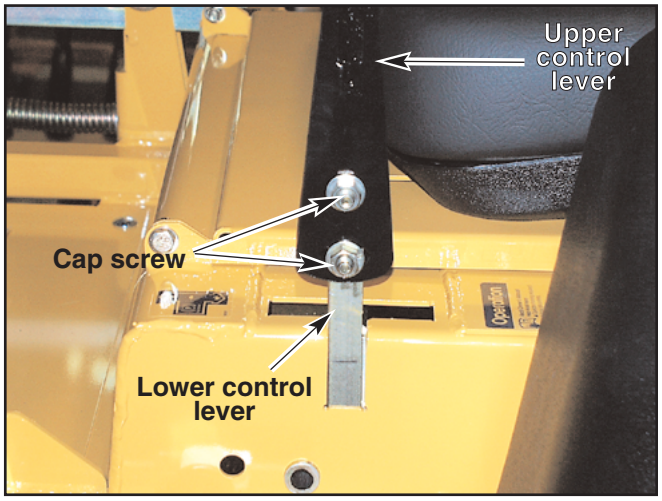


Figure 5-5

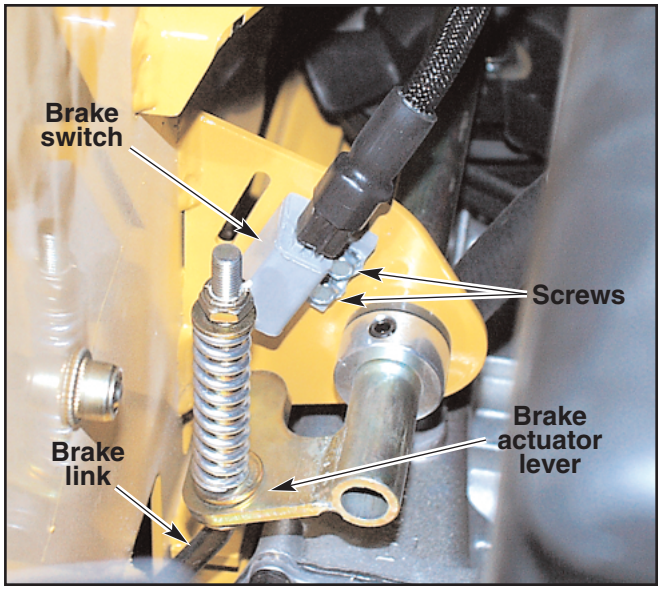


Figure 5-6

4. Tighten the nylock nut on top of the spring assembly until it is touching the top flat washer. **Do not** compress the spring. Fig. 5-7
5. Place the control lever in the park brake position. The brake pawl should now be activated and engaging the integrated pump/motor brake gear. Fig. 5-8
6. Repeat steps 2 thru 4 for the other side.

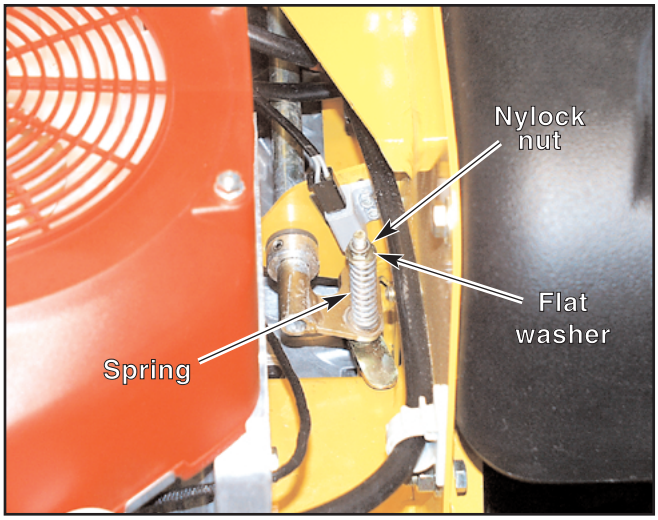


Figure 5-7

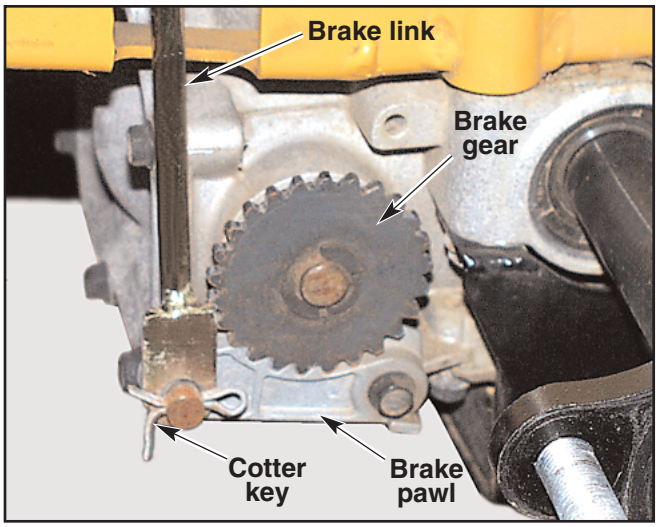


Figure 5-8

Park brake switch adjustment

Occasionally the park brake switch may need adjustment. Use the following method to adjust the switch:

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Place control levers in the park brake position.
2. Loosen the screws holding the switch. Fig. 5-6
3. Slide the switch all the way down until it is fully activated (button pushed in) against the brake actuator lever.
4. Tighten the screws.

Hydraulic pump belt adjustment

The pump drive belt tension remains constant by means of a tension idler and spring (Fig. 5-9). There is no tension adjustment of this belt.

Deck drive belt adjustment

The spindle belt tension remains constant by means of a tension idler and spring (Fig. 5-10). The spring tension should be such that the belt does not slip under normal operating load conditions, assuming the belt is not excessively worn or damaged. As belt stretches and wears in, adjustment may become necessary. To increase belt tension, move the spring chain one (or more) link(s) at the anchor bracket (Fig. 5-10). Installed spring length should be 7.50" ± .3" (19.05 cm ± .76 cm) originally with adjustments of .60" (15.2mm) per chain link. (Fig. 5-11)

IMPORTANT: Do not over tension the spring to compensate for a badly worn belt or pulley.

Engine RPM setting

The FasTrak is designed so that the engine will run at 3400 rpm with integrated pump/motor load only. At this speed the hydraulic pumps are running at their maximum rated speed.

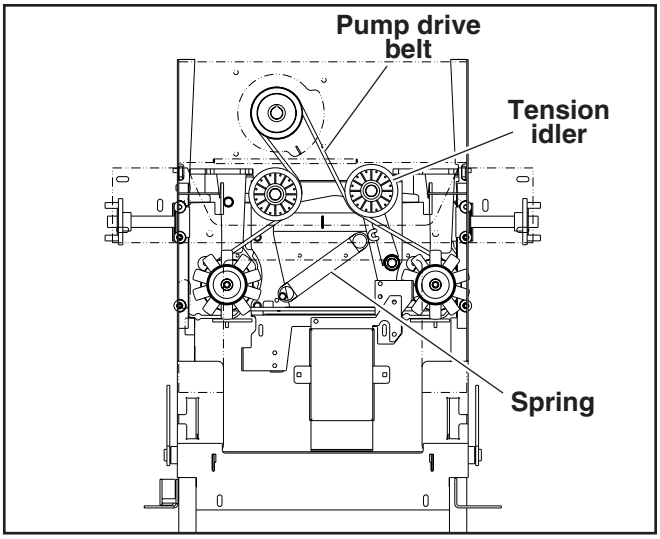


Figure 5-9

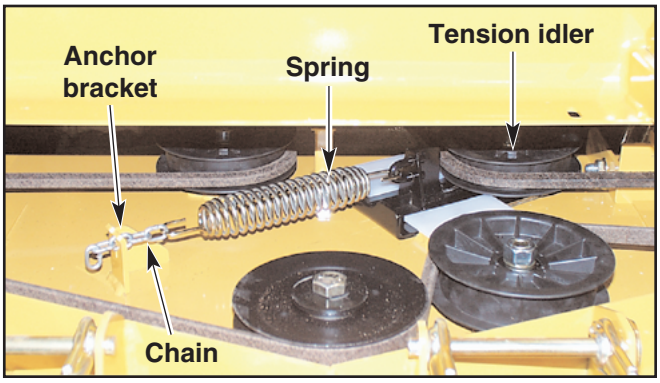


Figure 5-10

Deck leveling and height adjustment

The mower deck has three areas that may need to be checked and adjusted periodically. Before considering any mower deck leveling adjustments, check that the tire air pressure is within the specified range.

Deck level adjustments

Leveling the deck must be done in the following manner and order:

1. Check tire pressures to make certain they are properly inflated before starting to level deck. The recommended pressures are as follows:
   Drive wheels tire pressure .....8 - 10 psi
   Gauge wheels tire pressure.....8 - 10 psi

WARNING: Stop engine. Make sure deck clutch switch is **in the down (OFF) position.** Remove ignition key. Place control levers in the brake position before leaving machine.

2. Park the unit on a flat surface.
3. Raise deck and place 3" of blocking under all 4 corners of the deck (Fig. 5-12). This will set the cutting height at 3 ¼ ". **NOTE:** Back of deck will automatically be set ¼" higher.
4. Set cutting height at 3 ¼" in the height indicator by placing the

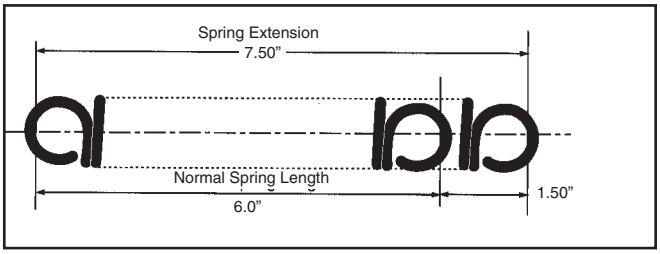


Figure 5-11

height adjusting stop in the 3" hole, and turning the height stop so that the flat side is against the stop handle. Fig. 5-13

5. Clamp the height adjusting stop against the stop handle (5-13). This will assure that the height will not move during the setting process. Otherwise, spring pressure from the deck lift springs will tend to pull the stop away from the handle.
6. Loosen all nuts on the deck lift threaded rods, and the hardware on the adjuster (on the right front), until **all** the deck lift chains are loose, **and** the deck is sitting tightly on all four blocks. Fig. 5-14, 5-15, 5-16
7. Loosen the two nuts on the front of height indicator so that the foot pedal is free. Fig. 5-17
8. Start the leveling process on the **left front** of the tractor.
9. Set the amount of threads protruding on the deck lift rod from the lift block at approximately 1". Fig. 5-18
10. Jam both nuts against the block.
11. Push or pull on the deck lift foot pedal until the **chain on the left front** just becomes tight, making sure that the deck stays tight against the 3" block.
12. While keeping the chain tight, tighten the nuts against the deck lift block on the height indicator rod. Fig. 5-17
13. Go to the **right front** of the tractor.
14. Loosen the 5/16" jam nut on the adjuster lift chain (5-16), and back the adjuster bolt out to allow the adjuster to move up and down freely.
15. Be sure that adjuster is free to move up and down.
16. Tighten the adjuster bolt until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
17. Tighten the adjuster bolt jam nut to prevent the adjuster bolt from moving. Fig. 5-16
18. Tighten the hardware holding the chain and adjuster onto the deck lift arm.

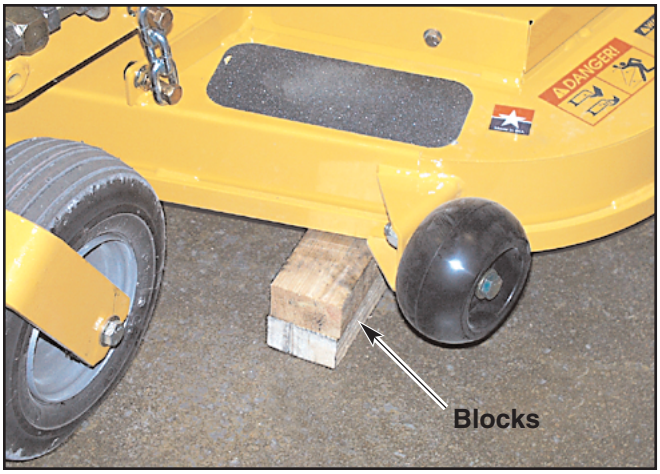


Figure 5-12

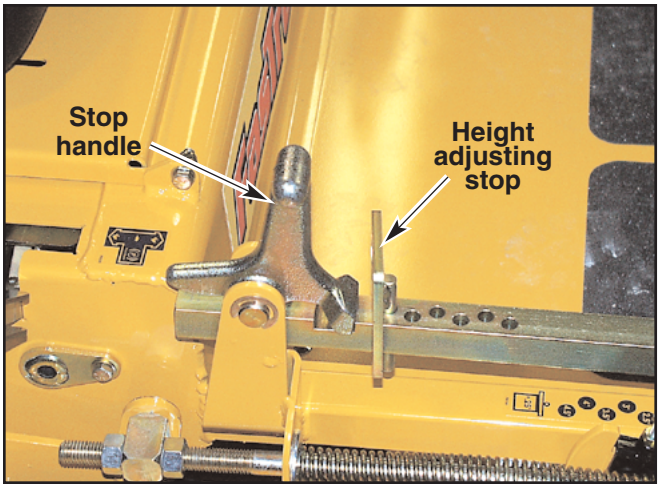


Figure 5-13

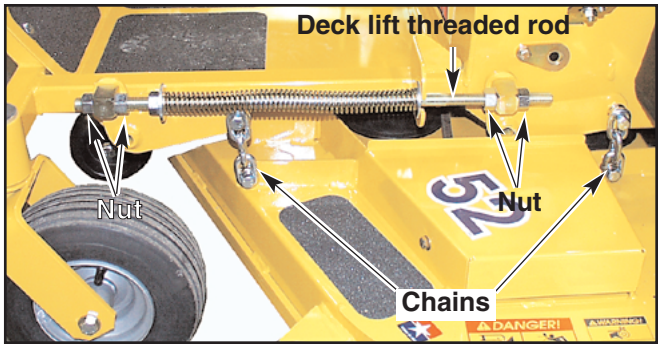


Figure 5-14

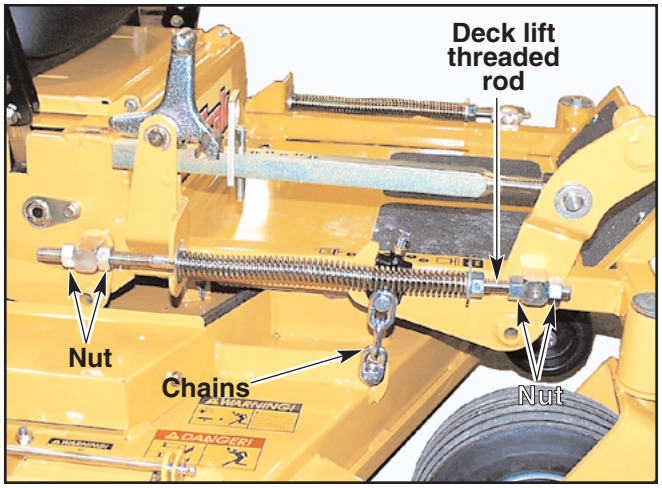


Figure 5-15

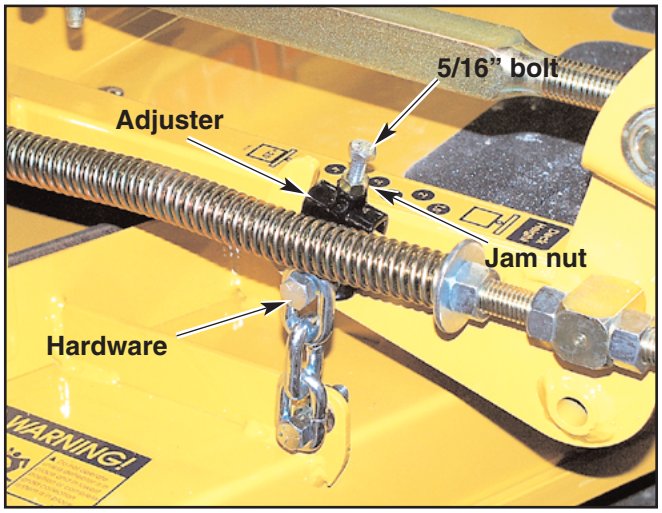


Figure 5-16

19. Go to the **right rear** of the tractor.
20. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain. Fig. 5-15
21. Tighten the appropriate nut until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
22. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
23. Go to the **left rear** of the tractor.
24. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain. Fig. 5-14
25. Tighten the appropriate nut until the chain just becomes tight.
26. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.

27. Compress the deck lift assist springs so that there is 1” of space between the front nut on the spring and the rear nut on the deck lift block (Fig. 5-18). Typical both sides.
28. When completed, all chains will be tight, and deck cutting height will be set to the deck height indicator.

Deck cutting height adjustment

Deck height is adjustable from 1” to 4” (2.54 cm - 10.16 cm) in 1/4” increments. The holes in the height adjusting bar are spaced at 1/2” intervals. By turning the height adjusting stop around, 1/4” increments can be attained due to the 1/4” plate that is part of the stop. Fig. 5-19

EXAMPLE: When the height adjusting stop is placed in the 1-1/2” hole, **with the 1/4” plate facing to the front of the unit,** the cutting height is at 1-1/2”. When the height adjusting stop is placed in the 1-1/2” hole, **with the 1/4” plate on the operator’s side of the hole,** the cutting height is at 1-3/4”.

When the height adjusting stop is placed in one of the holes, with the 1/4” plate on the operator’s side of the hole, the deck height will be set at one of the following: 1-1/4”, 1-3/4”, 2-1/4”, 2-3/4”, 3-1/4”, or 3-3/4”.

When the height adjusting stop is placed in one of the holes, with the 1/4” plate facing to the front of the unit, the deck height will be set at one of the following: 1”, 1-1/2”, 2”, 2-1/2”, 3”, 3-1/2”, or 4”.

The notch located at the rear of the right height adjusting bar (4” height) is to be used when the deck is placed in the transport mode.

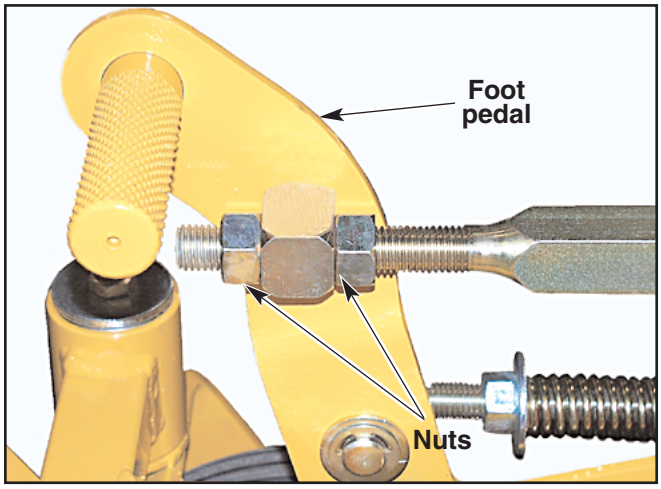


Figure 5-17

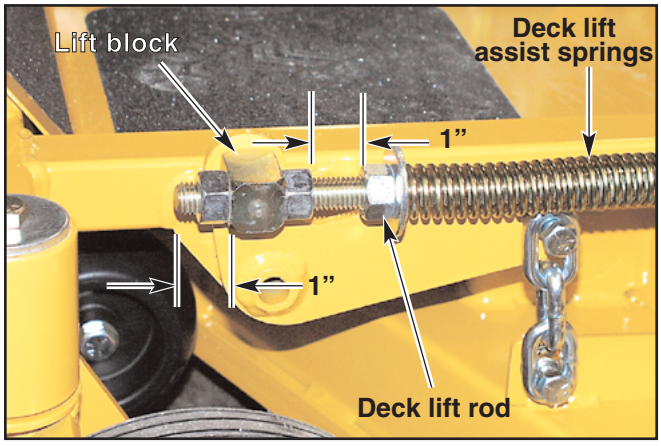


Figure 5-18

Anti-scalp wheels

Anti-scalp wheel kits are standard on the FasTrak. These anti-scalp wheels are designed to minimize scalping when mowing on rough uneven terrain.

After setting the cutting height, adjust the front anti-scalp wheels so they extend below the deck but **do not contact the ground.** They should always be at least 1/4” to 3/4” (.6 cm to 1.9 cm) below the deck. With the unit sitting on a flat level surface, the front wheel position can be adjusted up or down as needed from 3/4” to 1-3/4” (1.9 cm to 9.5 cm) below the blade surface. Move the front wheels up or down, in 1/2” (1.3 cm) increments, using the different axle mount holes in the wheel mount bracket. Fig. 5-20

When adjusting the rear anti-scalp wheels, the wheel should be in the lower axle mount hole when the front anti-scalp wheels are in the lower or middle axle mount holes. When the front wheels are in the upper axle mount hole, the rear wheels should be in the upper axle mount hole as well.

NOTE: When the anti-scalp wheels are installed, the minimum cutting height is 1-1/2” (3.81 cm) with the anti-scalp wheels set at 3/4”.

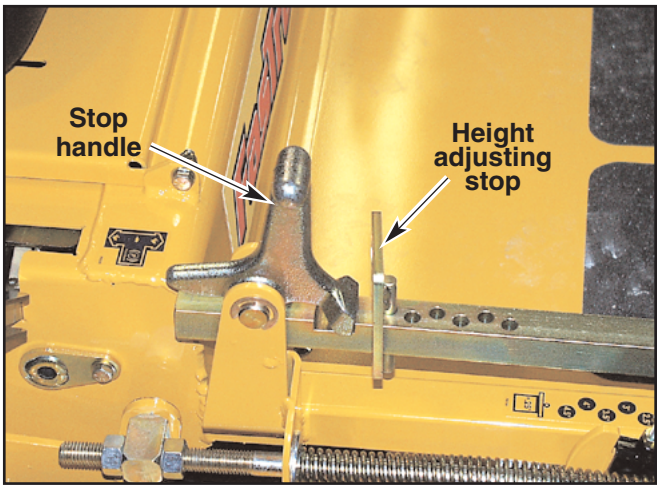


Figure 5-19

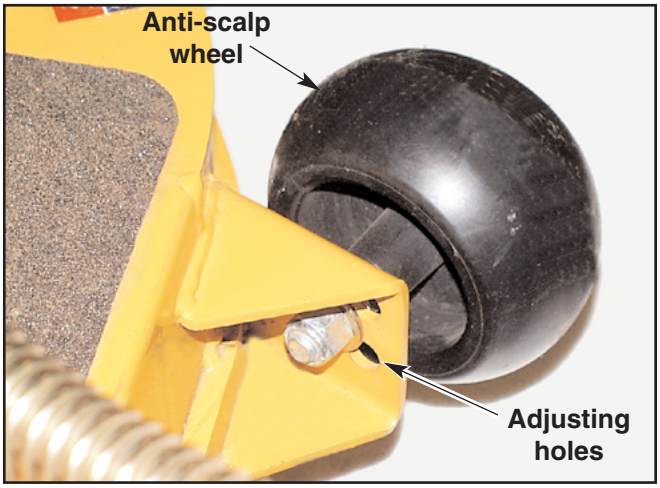


Figure 5-20

TROUBLESHOOTING

The majority of operating problems that occur with a system can be traced to improper adjustments or delayed service. A consistently applied preventative maintenance program, as outlined in the maintenance section of this manual, will prevent many problems. The following chart is designed to help you locate a problem by suggesting probable causes and the recommended solutions.

SYMPTOMS	PROBABLE CAUSES	SUGGESTED REMEDIES
Starting motor does not crank	Control handles not in park brake position or switch not adjusted	Place control handles in park brake position or re-adjust switch
	Deck clutch switch engaged	Disengage clutch switch
	Weak or dead battery	Recharge or replace
	Electrical connections are corroded or loose	Check the electrical connections
	20 amp fuse is blown	Replace the 20 amp fuse
	For additional causes	See engine manual
The engine will not start, starts hard, or fails to keep running	No fuel or line plugged	Fill tank or replace line
	Fuel valve is turned off	Open the fuel valve
	There is incorrect fuel in the fuel system	Drain the tank and replace the fuel with the proper type
	There is dirt in the fuel filter	Replace the fuel filter
	Dirt, water, or stale fuel in the fuel system	Contact your Hustler Dealer
	The choke is not on	Move the choke lever to On
	Numerous	See engine manual
Engine: Runs with continuous misfiring or engine runs unevenly or erratically	Numerous	See engine manual
Loss of power or system will not operate in either direction	Restrictions in air cleaner	Service air cleaner
	Poor compression	See your dealer
	Steering linkage needs adjustment	Adjust linkage
	Tow valve open	Close the tow valve
	The tractrion drive belt is worn, loose or broken	Install a new traction drive belt
	The traction drive belt is off the pulley	Install the traction drive belt and check for a reason
	For additional causes	See engine manual
Overheating	Air intake screen or cleaning fins clogged	Clean screen and fin
	For additional causes	See engine manual
Low engine oil pressure	Low oil level	Add oil
	Oil diluted or too light	Change oil and check for source of contamination
High oil consumption	Numerous	See your dealer
Tractor jerky when starting or operates in one direction only	Steering control linkage needs adjustment	Adjust linkage
	IZT component faulty	See your dealer
Tractor creeps when steering control levers are in neutral	Steering linkage needs adjustment	Adjust linkage
Tractor circles or veers in one direction	Steering linkage needs adjustment	Adjust linkage
	IZT component faulty	See your dealer
	Tires improperly inflated	Adjust tire pressure to 8 - 10 psi

SYMPTOMS	PROBABLE CAUSES	SUGGESTED REMEDIES
There is abnormal vibration	The engine mounting bolts are loose	Tighten the engine mounting bolts
	The engine pulley, idler pulley or blade pulley is loose	Tighten the appropriate pulley
	The engine pulley is damaged	Contact your Hustler Dealer
	The cutting blade(s) is/are bent or unbalanced	Install new cutting blade(s)
	A blade mounting bolt is loose	Tighten the blade mounting bolt
	Spindle bearing is worn or loose	Replace or tighten spindle bearing
	A blade spindle is bent	Contact your Hustler Dealer
Uneven cutting height	The blade(s) are not sharp	Sharpen the blades
	A cutting blade(s) is/are bent	Install new cutting blade(s)
	The deck is not level	Level the deck per the Deck leveling & height adjusting section of this manual
	An anti-scalp wheel is not set correctly	Adjust the height of the anti-scalp wheel
	The underside of the deck is dirty	Clean the underside of the deck
	Tire pressure is incorrect	Adjust the tire pressure to 8 - 10 psi
	A blade spindle is bent	Contact your Hustler Dealer
Blades do not rotate	The deck drive belt is worn, loose or broken	Install a new deck drive belt
	The deck drive belt is off the pulley	Install the deck drive belt and check for a reason
	Electric clutch is not engaging	Check and/or replace 10 amp fuse. Contact your Hustler dealer

STORAGE

When storing the unit at the the end of the mowing season, the following steps should be taken to ensure readiness for the next mowing season.

1. Remove all grass, dirt, and trash from tractor and mower. Clean tractor and mower and touch up all scrapes with Hustler spray paint.
   IMPORTANT: Wash the machine with a mild detergent and water. Do not pressure wash the machine. Avoid excessive use of water, especially near the control panel, engine and the integrated pump/motor units.
2. Install new air filter per Engine Owner's Manual.
3. Check thoroughly for any worn or damaged parts that need replacing and order them from your dealer.
4. Thoroughly lubricate machine, according to lubrication instructions.
5. Block tractor up so weight is off tires.
   NOTE: Do not deflate tires.
6. Remove the battery from machine
   A. Clean battery
   B. Check the electrolyte level
   C. Charge the battery, if necessary
   D. Store battery in a cool, dry place (do not expose to freezing temperatures)
   E. Always keep the battery fully charged. (Especially important to prevent battery damage when the temperature is below 32^{O}F.)
7. Perform separate engine preparation as listed below.
8. Store tractor in a clean, dry place.

Preparation of engine for storage

When engine is to be unused for long periods, proceed as follows:

1. Run engine for a minimum of 15 minutes.
2. Drain oil from crankcase while engine is still warm.
3. Refill with fresh oil of proper viscosity.
4. Drain fuel tank and run the engine until it stops from lack of fuel. Gasoline evaporates if left in carburetor for long periods, forming gum and varnish deposits in carburetor. These deposits will cause engine flooding and loss of power.
5. Remove and replace fuel filter if not done in previous 100 hours.
6. Remove spark plugs and pour a tablespoon of engine oil into each spark plug hole, Install plugs, but do not reconnect plug leads.
7. Crank engine with starter at least a dozen revolutions to distribute oil over cylinder walls and valve mechanism.
8. Clean exterior surface of engine. Spread a light film of oil over any exposed metal surfaces of engine that are subject to corrosion.
9. Clean dirt and chaff from cylinders and fins, blower housing and muffler.
10. Check oil filler cap and fuel tank cap to make certain they are securely in place.
11. Refer to engine manual for more information.

New season preparation

Before starting the tractor following post season storage, the following servicing is required:

1. Clean tractor, removing trash and dirt accumulation.
2. Check engine oil level.
3. Fill fuel tank with fresh gasoline. Run machine at half speed for 5 minutes, checking operation of steering control lever. Stop engine and check for oil leaks, loose fittings and so forth.
4. Tighten any bolts that have loosened and make sure all hair pins, cotter pins and clevis pins are in place.
5. Install all safety shields and review safety precautions listed in this manual.
6. Check and inflate tires to 8-10 psi.
7. Refer to engine manual for more information.

PRODUCT LITERATURE

This section contains sources of additional literature concerning your tractor. Literature should be ordered from your Hustler dealer or direct from indicated source.

FasTrak Parts Manual

If you would like to order a Parts Manual for this tractor, the Hustler part number for that manual is listed below. Please call Hustler Turf Equipment at (620) 327-1246 to order the manual. You may also mail, FAX, or e-mail your order by using the form on page 8-3. Hustler Turf Equipment will accept credit card payment for this manual.

Model	Model Number	Parts Manual P/N	List Price
FasTrak	926501, 926519, 926527, 926592 926600, 926774	365262	$22.50

Engine information

The FasTrak uses a Honda 16, 18, or 20hp engine. Primary source of information is the engine owner's manual, which is included with the FasTrak's owner's manual packet. For additional copies order Hustler P/N 785642.

DESCRIPTION	HONDA PART NUMBER	ORDER HUSTLER PART NUMBER
Honda Service Manual	61-ZJ-410	785691

The FasTrak uses a Briggs & Stratton 17.5hp engine. Primary source of information is the engine owner's manual, which is included with the FasTrak's owner's manual packet. For additional copies order Hustler P/N 786947.

DESCRIPTION	BRIGGS & STRATTON PART NUMBER	ORDER HUSTLER PART NUMBER
Briggs & Stratton Service Manual		786962

For additional engine service manual information contact your local Honda or Briggs & Stratton dealer.

Hydraulic transmission information

Power to wheels is supplied by two Hydro-Gear IZT integrated pump/motor units.

During warranty period, check with your Hustler dealer before attempting repairs on any tractor system. Unauthorized repair work can void warranty of tractor, engine, and other components.

FREQUENTLY ORDERED PARTS

Part No.	Description
784231	Pump drive belt
784249	B-Section belt, deck (52”)
784322	B-Section belt, deck (44”)
785626	Fuel filter (Honda)
785600	Air filter element assembly (Honda)
785618	Precleaner air filter (Honda)
785634	Engine oil filter (Honda)
786970	Fuel filter (Briggs & Stratton)
786988	Air cleaner cartridge (Briggs & Stratton)
787002	Engine oil filter (Briggs & Stratton)
783753	18” blade
784256	16” blade
785428	16” gator blade
785436	18” gator blade

TECHNICAL SPECIFICATIONS

ENGINE SPECIFICATIONS

	Honda	Honda	Honda	Briggs & Stratton
Horsepower	16	18	20	17.5
No. of Cylinders	2	2	2	1
Displacement	32.3 CU IN (530 CC)	37.5 CU IN (614 CC)	37.5 CU IN (614 CC)	30.6 CU IN (500 CC)
Compression Ratio	8:1	8.3:1	8.3:1	8.5:1
Max. Torque	31.7 FT LBS @ 2500 RPM	32.5 FT LBS @ 2500 RPM	32.5 FT LBS @ 2500 RPM	24.9 FT LBS @ 2400 RPM

Electrical System	12-volt, 15-amp. regulated	
Ignition	Electronic	
Fuel Capacity	12.2 US GAL (46.18 L).	
Transmission	Dual hydrostatic, Hydro-Gear IZT	
Forward speeds	0-7 mph (0-11.26 kph), infinitely variable	
Reverse speeds	0-5 mph (0-8 kph), infinitely variable	
Steering	Twin lever, true zero degree turning radius	
Brakes		
Service	Hydrostatic dynamic braking	
Parking	Sprocket and cog. Patent-pending integral park brake system (when control levers are placed in park brake position, park brakes are automatically engaged.)	
Seat	Adjustable, deluxe high back. Optional armrests.	
Tires		
Front Casters	11 x 4, rib tread.	
Rear Drive	18 x 8.50, turf tread (44 in.)	18 x 9.50, turf tread (52 in.)
Mower	**44 in. side-discharge**	**52 in. side-discharge**
Width	44 in. (11.76 cm)	52 in. (132.08 cm)
Blades	(3) 15.7 in. x 2.5 in. x .20 in.	(3) 18.3 in. x 2.5 in. x .20 in.
Cutting Height	1.5 in. to 4.5 in., .25 in. increments (3.81 cm to 11.43 cm, .64 cm)	
Dimensions	**44 in. side-discharge**	**52 in. side-discharge**
Height	38 in. (96.52 cm)	
Length	65 in. (165.10 cm)	69.62 in. (176.83 cm)
Width Overall	49.2 in. (124.97 cm)	57.2 in. (145.29 cm)
Net Weight	730 lbs. (3311.21 kg)	740 lbs. (3356.57 kg)

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